engineered for life™

Commercial Renaissance® Line
Classic® Series Packaged Gas Electric Units



RGEG Series

Cooling Efficiencies up to: 10.8 EER & 14 IEER
Nominal Sizes: 15, 17.5, 20 & 25 Tons [52.8, 61.5, 70.3 & 87.9 kW]
Cooling Capacities: 180k Btu/h to 300k Btu/h
Refrigerant Type: R-454B
ASHRAE 90.1 2022 Compliant Models

ISO 9001:2015

c UL us LISTED

AHRI CERTIFIED™ www.ahridirectory.org
Unitary Large AC
AHRI Standard 340/360
Certification applies only when the complete system is listed with AHRI.

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RGEG STANDARD FEATURES INCLUDE:

Manufacturing / Quality Features

- Factory charged with R-454B refrigerant
- Wired factory-installed refrigerant leak detection system
- Wired and run tested at the factory
- Powder Paint Finish meets ASTM® B117 test requirements. G90 galvanized steel coated on each side for maximum protection.
- Foil face insulation encapsulated throughout entire unit minimizes airborne fibers in the air stream Insulation

Performance Features

- Cooling operation up to 125°F ambient
- Scroll compressors with internal line break overload and high-pressure protection
- Two stages of cooling operations
- Two-stage gas heat input with direct spark ignition system, solid state furnace controls, and optimized induced draft combustion
- MicroChannel evaporator and condenser coil
- High pressure and low pressure/loss of charge protection with built-in Smart Logic
- Patented PlusOne® SmartShield™ Interlaced MicroChannel Coil Design
- Standard blower with Variable Frequency Drive (VFD) control

Convenience/Serviceability Features

- Flexible footprint to support a variety of roof curbs
- Forkable base rails for easy handling and lifting
- Qwik-Slide Velocifin® Heat Exchanger Design Qwik-Slide Blower Assembly Qwik-Clean drain pan
- Overflow condensate sensor
- PlusOne Diagnostics with Dual 7-Segment LED Display to meet code compliance
- Field convertible airflow – vertical downflow or horizontal sideflow
- Base pan with drawn supply and return opening
- Filter access door with ¼ turn fasteners (on hinged models only)
- Color-coded and labeled wiring
- TXV refrigerant metering system
- Solid-core liquid line filter drier
- High performance belt drive motor with variable pitch pulleys and quick adjust belt System
- MERV 8 and MERV 13 filters available as a factory or field-installed accessory
- Factory-installed refrigerant leak detection system

Controls Feature

- Standard MODBUS® interface (only on DDC models)
- Optional phase monitoring

FACTORY-INSTALLED OPTIONS:

- Economizer w/Single Enthalpy (Downflow/Vertical)
- Economizer w/Single Enthalpy (Downflow/Vertical) DDC
- Low Ambient Control Kit
- Freeze Stat Kit
- Return Smoke Detector (Downflow/Vertical)
- Return Smoke Detector (Horizontal)
- Return/Supply Smoke Detector (Downflow/Vertical)
- Return/Supply Smoke Detector (Horizontal)

FIELD-INSTALLED ACCESSORY EQUIPMENT:

Accessory	Model Number	Factory Installation Available?
Economizers		
Non-DDC Economizer with Single Enthalpy (Downflow) *MicroMetl Economizer with Siemens® Controls*	RXRD-11MGDAM3	Yes
Non-DDC Economizer with Single Enthalpy (Downflow) *RRS Economizer with Siemens Controller*	RXRD-51MGDAM3	Yes
Non-DDC Economizer with Single Enthalpy (Horizontal) *MicroMetl Economizer with Siemens Controls*	RXRD-11MGHAM3	No
Non-DDC Economizer with Single Enthalpy (Horizontal) *RRS Economizer with Siemens Controller*	RXRD-51MGHAM3	No
Economizer Universal DDC Interface Kit[1]	RXRX-DDC01	Yes

[1]Does not have to be selected individually. This accessory will be included with the factory installed economizer for a DDC unit if required.

Accessory	Model Number	Factory Installation Available?
Power Exhaust (230V) Kit, Convertible *MicroMetl*	RXRX-CGF01C	No
Power Exhaust (230V) Kit, Convertible *RRS*	RXRX-RGF01C	No
Power Exhaust (460V) Kit, Convertible *MicroMetl*	RXRX-CGF01D	No
Power Exhaust (460V) Kit, Convertible *RRS*	RXRX-RGF01D	No
Power Exhaust (575V) Kit, Convertible *MicroMetl*	RXRX-CGF01Y	No
Power Exhaust (575V) Kit, Convertible *RRS*	RXRX-RGF01Y	No
Concentric Adapter/Transition 15 & 17.5 Ton	RXMC-GG01	No
Concentric Adapter/Transition 20 Ton	RXMC-GG02	No
Concentric Adapter/Transition 25 Ton	RXMC-GG03	No
Concentric Flush Mount Diffuser 15 & 17.5 Ton	RXRN-AEF2042	No
Concentric Flush Mount Diffuser 20 Ton	RXRN-AEF2348	No
Concentric Flush Mount Diffuser 25 Ton	RXRN-AEF2852	No
Concentric Step Down Diffuser 15 & 17.5 Ton	RXRN-AED2042	No
Concentric Step Down Diffuser 20 Ton	RXRN-AED2348	No
Concentric Step Down Diffuser 25 Ton	RXRN-AED2852	No
Convenience Outlet, Non-Powered	RXRX-BN01	Yes
Flue Diverter	RXRX-DGG05	No
Fresh Air Damper, Manual	RXRF-AGA1	No
Fresh Air Damper, Motorized	RXRF-AGB1	No
Fresh Air Damper, Motorized (DDC)	RXRF-AGC1	No
LP Kit I 240k & 320k Btu/h, 40k Burner	FP-42	No
LP Kit I 400k Btu/h, 50k Burner	FP-43	No

[2]Not available on 25 ton models with C Voltage

Accessory	Model Number	Factory Installation Available?
MERV 8 Filter	RXMF-M08A22420	Yes
MERV 13 Filter	RXMF-M13A22420	Yes
Outdoor Coil Louver Kit	RXRX-LKG01	Yes
Roofcurb - Restraint Clips	RXRX-DGCRC	No
Roofcurb Adapter	RXRX-DGCAE	No
Roofcurb Adapter Z-Bracket	RXRX-DGCAZ	No
Roofcurb, 14"	RXRX-DGC14	No
Roofcurb, 18"	RXRX-DGC18	No
Roofcurb, 24"	RXRX-DGC24	No
Unfused Service Disconnect[2]	RXRX-BPG1	Yes
Comfort Alert® I 3ph, DDC	RXRX-AZG2	Yes
Communication Card, BACnet®	RXRX-AY01	No
Communication Card, LonWorks®	RXRX-AY02	No
Dual Enthalpy, Temperature and Humidity Sensor *(for Honeywell® DDC)*	RXRX-BV02	No
Dual Enthalpy, Temperature and Humidity Sensor *(for Siemens)*	PD555460	No
Freeze Stat Kit (Non-DDC)	RXRX-AM06	Yes
Low-Ambient Control Kit	RXRZ-G01	Yes
Sensor, Carbon Dioxide (Wall Mount)	RXRX-AR02	No
Sensor, Room Humidity	RHC-ZNS4	No
Sensor, Room Temperature and Relative Humidity	RHC-ZNS5	No
Smoke Detector, Return (Downflow)	RXRX-BSG1	Yes
Smoke Detector, Return (Horizontal)	RXRX-BSG2	No
Smoke Detector, Return/Supply (Downflow)	RXRX-BSG3	Yes
Smoke Detector, Return/Supply (Horizontal)	RXRX-BSG4	No



Cabinet and Foundation

Outwardly, the large *Rheem® Commercial* label **(1)** identifies the brand to the customer. The sheet-metal cabinet **(2)** uses 18-gauge material for structural components with an underlying coat of G90. To ensure the leak-proof integrity of these units, the design utilizes a top with a 1/8" drip lip **(3)** as well as gasket-protected panels and screws. The Rheem outdoor coil louver kit (optional) **(4)** sets the standard for coil protection in the industry. Electro deposition, baked-on enamel that is tested to withstand a rigorous 1000-hour salt spray test, per ASTM B117.

Anything built to last must start with the right foundation. Following that model, the foundation is comprised of 14-gauge, commercial-grade, full perimeter base rails **(5)** that integrate fork slots and rigging holes to save set-up time on the job site.

Easy Installation

The line features a new footprint that simplifies the replacement process by eliminating the need for a new curb adapter and being able to match inlet, outlet and electrical connections of the most common/industry-standard configurations.

Base Pan

The base pan is stamped to form a 7/8" flange around the supply and return cover, which eliminates the worry of water entering the conditioned space **(6)**. All insulation is secured with both adhesive and mechanical fasteners, and all edges are hidden.



Drain Pan

The Qwik-Clean Drain Pan **(7)** is made from a composite material that resists the growth of harmful bacteria. With both side and center drain options, the drain pan slides out completely for easy cleaning. It also features overflow detection as a standard feature.



Test Standards

During development, each unit was tested to U.L. 60335-2-40, AHRI 340-360 as well as other Rheem-required reliability tests. Rheem adheres to stringent ISO 9001 quality procedures, and each unit bears the U.L. and AHRI certification labels located on the unit nameplate. Contractors can be assured that when a Rheem packaged unit arrives at the job, it is ready to go with a factory charge and quality checks.

Easy Access

All major compartments are easily accessible from the front of the unit: the electrical compartment, blower compartment, heating section, and outdoor section. Each compartment has mechanical fasteners. The filter compartment is accessed through a large, mechanically fastened panel. Information is readily available on the outside of the panel, with a nameplate that contains the model and serial numbers, electrical data, and other important unit information. Hinged access is available as an option for the electrical, blower, compressor and filter compartments.

Charging Charts, Wiring Diagrams & Labels



The unit charging chart and rating plate are located on the top right corner of the economizer side of the unit **(8)**. Electrical wiring diagrams are found on the control box cover, which allows contractors to move them to more readable locations. Having this information means easier model identification for the life of the product. Each unit also includes a production line quality test assurance label.

Filter Rack

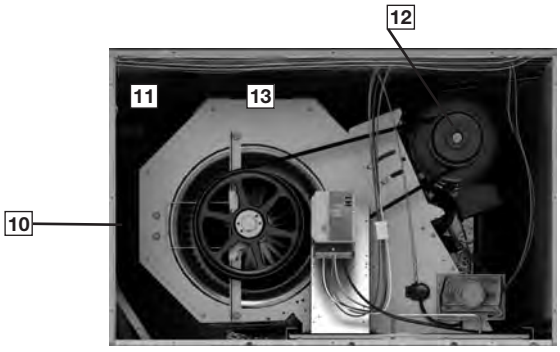


Located within the filter compartment, the Slide-Out Filter Rack™ **(9)** allows easy change of eight 20" x 24" x 2" standard size filters.

Blower Assembly

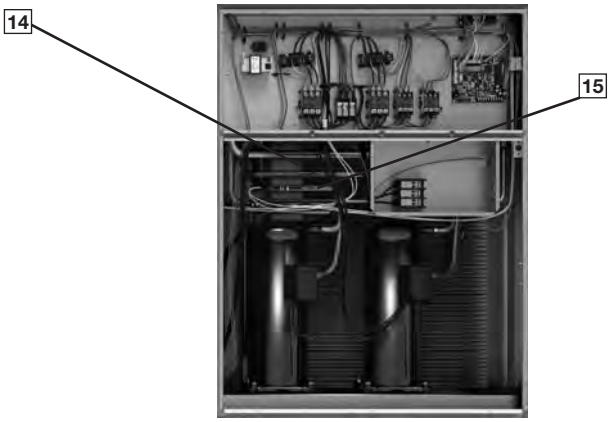
Removal of the blower access panel provides full access to the blower compartment. Inside, the Qwik-Slide Blower Assembly **(10)** allows for easy removal of the blower as an assembly. This makes servicing the blower components such as VFD, motor, and adjusting the pulley much easier. The entire assembly slides out by removing four 5/16" screws from the blower retention bracket. This compartment also includes the low ambient control. **(11)** The low ambient control allows the compressor to operate down to 0 degrees ambient temperature by cycling the outdoor fans on high pressure. The adjustable motor pulley **(12)** can easily be adjusted by loosening the bolts on either side of the motor mount. Removing the bolts allows for easy removal of the blower pulley by pushing the blower assembly up to loosen the belt. Once the pulley is removed, the motor sheave can be adjusted to the desired number of turns, ranging from 1 to 6 turns open.

Where the demands for the job require high static, Rheem offers drives that deliver nominal airflow up to 2" of static. By referring to the airflow performance tables listed in the installation instructions, proper static pressure and CFM requirements can be dialed in. The scroll housing **(13)** and blower scroll provide quiet and efficient airflow. The blower sheave is secured by an “H” bushing that firmly secures the pulley to the blower shaft, resulting in years of trouble-free operation. The “H” bushing allows for easy removal of the blower pulley from the shaft. This is an improvement from a set screw, which can score the shaft and create burrs that make blower-pulley removal difficult.



High and Low Pressure Switches & Freeze Stat

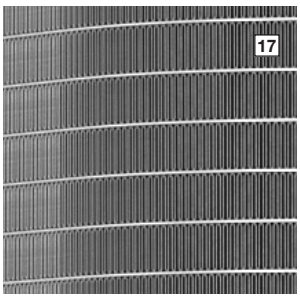
High pressure **(14)** and low pressure **(15)** switches are standard. They are located in the outdoor section. The optional Freeze Stat **(16)** is clipped onto the suction line in the blower compartment. The high-pressure switch shuts off the compressors if pressures exceeding 650 PSIG are detected. The low-pressure switch shuts off the compressors if a low pressure of 50 PSIG is detected due to loss of charge. Built-in Smart Logic reduces nuisance calls by only shutting off compressors after the third detection. The freeze stat protects the compressor if the evaporator coil gets too cold (below freezing) due to low airflow.





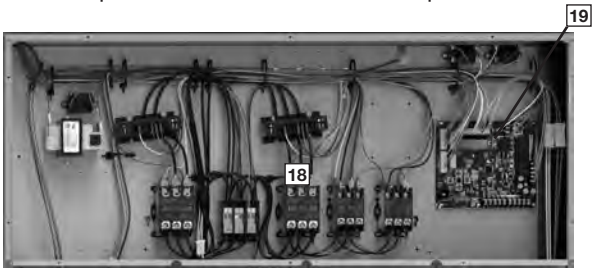
MicroChannel Evaporator & TXV

The patented dual circuit evaporator coil **(17)** uses interlaced MicroChannel technology for maximum heat transfer, light weight, fewer manually brazed connections and reduced refrigerant charge. The TXV metering devices maintains superheat over a wide range of varying temperatures optimizing unit performance for all conditions.



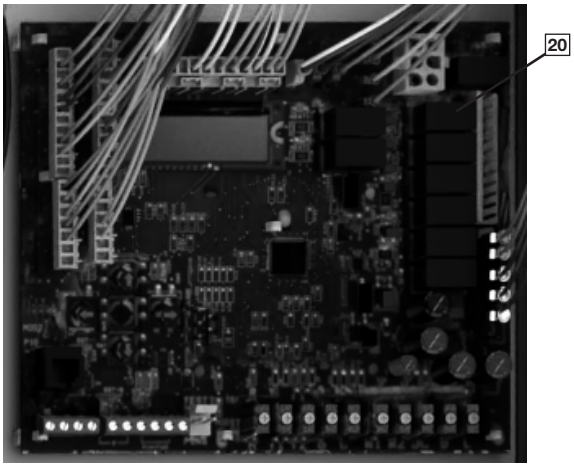
Control Box

Inside the control box **(18)**, each electrical component is clearly labeled; that label matches the component to the wire diagram for ease of trouble shooting. Some wiring is numbered on each end of the termination and is color-coded to match the wiring diagram. The integrated furnace control, incorporates the PlusOne® Diagnostics: Dual 7-Segment LED Display with easy-to-understand fault codes. The control transformer has a low voltage circuit breaker that trips if an electrical short occurs. There is a compressor contactor for each compressor.



ClearControl

The optional ClearControl™ system **(19)** consisting of a rooftop unit controller, temperature sensors, and pressure sensors, allows real-time monitoring and communication between rooftop units. The Rooftop Unit Controller (RTU-C) is factory mounted and wired into the control panel. The RTU-C is a solid-state, microprocessor-based control board that provides flexible control and extensive diagnostics for all unit functions. The RTU-C, using proportional/integral control algorithms, performs specific unit functions that govern unit operation in response to zone conditions, system temperatures, system pressures, ambient conditions, and electrical inputs. The RTU-C features a 16 x 2 character LCD display and a five-button keypad for local configuration and direct diagnosis of the system **(20)**. Features include a clogged filter switch (CFS), fan proving switch (FPS), return air temperature sensor (RAT), discharge air temperature sensor (DAT), and outdoor air temperature sensor (OAT). Freeze sensors (FS) are used in place of freeze stats to allow measurement of refrigerant suction line temperatures.



The RGEG Gas Electric unit with the RTU-C is specifically designed to be applied in four distinct applications:

1. **BACnet Communication —** The unit is compatible with a third party building management system that supports the BACnet Application Specific Controller device profile, with the use of a field-installed BACnet Communication Module. The BACnet Communication Module plugs onto the unit RTU-C controller and allows communication between the RTU-C and the BACnet MSTP network. A zone sensor, a BACnet network zone sensor, a BACnet thermostat, or DDC controller may be used to send the zone temperature or thermostat demands to the RTU-C. The BACnet Communication Module is compatible with MSTP EIA-485 daisy chain networks communicating at 38.4 bps. It is compatible with twisted pair, shielded cables.

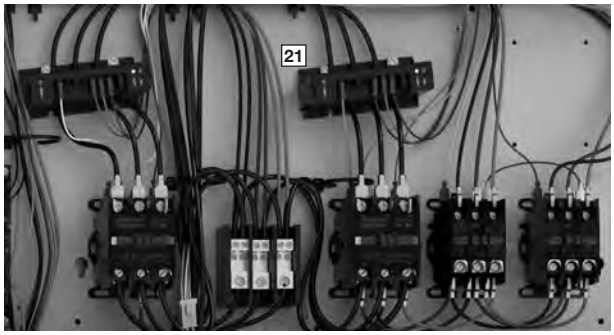
2. **LonWorks Communication —** The unit is compatible with a third party building management system that supports the LonMark Space Comfort Controller (SCC) functional profile or LonMark Discharge Air Controller (DAC) functional profile. This is accomplished with a field-installed LonMark communication module. The LonMark Communication Module plugs onto the RTU-C controller and allows communication between the RTU-C and a LonWorks network. A zone sensor, a LonTalk network zone sensor, or a LonTalk thermostat or DDC controller may be used to send the zone temperature or thermostat demands to the RTU-C. The LonMark Communication Module utilizes an FTT-10A free topology transceiver communicating at 78.8 kbps. It is compatible with Echelon qualified, twisted pair cable, Belden 8471, or NEMA Level 4 cables. The module can communicate up to 1640 feet with no repeater. The LonWorks limit of 64 nodes per segment applies to this device.

3. **24V Thermostat Compatibility —** The unit is compatible with a programmable 24 volt thermostat. Connections are made via conventional thermostat screw terminals. Extensive unit status and diagnostics are displayed on the LCD screen of the RTU-C.

4. **Zone Sensor Compatibility —** The unit is compatible with a zone sensor and a mechanical or solid state time clock connected to the RTU-C. Extensive unit status and diagnostics are displayed on the LCD screen of the RTU-C.

Comfort Alert

A factory or field-installed Comfort Alert **(21)** module is available for power phase-monitoring protection and additional compressor diagnostics. The alarms can be displayed on the RTU-C display or through the (BAS) network.



Variable Frequency Drive

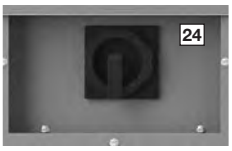


The supply fan Variable Frequency Drive (VFD) **(22)** optimizes energy usage year round by providing a lower speed for first stage cooling operation, improving IEER's over the conventional constant fan system. Operating in the constant fan mode at the reduced speed can use as little as 1/5 of the energy of a conventional constant fan system. Also, by operating at a lower speed on first stage cooling, up to 126% more moisture is removed, improving comfort during low load operation. VFD comes standard in every model. The VFD supply fan factory option meets California Title 24 and ASHRAE 90.1-2016 requirements for multi blower speed control. VFD also ramps up to the desired speed, reducing stress on the supply fan components and noise from a sudden inrush of air. Because the airflow is cut in half during first stage cooling and constant fan operation, noise is much less during these modes of operation.

Convenience Outlet, Disconnect, & Circuit Breaker

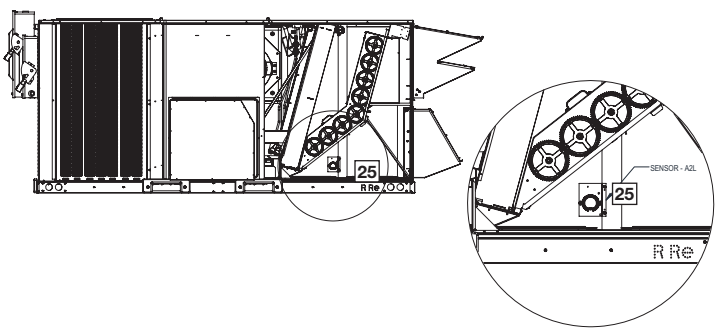
For added convenience in the field, factory-installed options of non-powered convenience outlet **(23)**, disconnect **(24)** and circuit breakers are available. Low and high voltage can enter from the side or through the base. For ease of access, the U.L.-required low voltage barrier can be temporarily removed for low-voltage termination and then reinstalled.





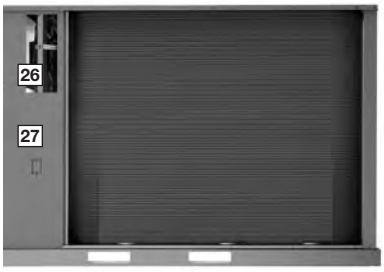
Refrigerant Leak Detection

In the event of a detected refrigerant leak, the refrigerant leak detection sensors **(25)**will trigger the mitigation procedure that shuts off the compressor(s) and turns on the indoor blower motor. If a vertical field-installed economizer will also be installed during the unit installation, the refrigerant detection system's wire harnesses must be unplugged from both sensors. Once the economizer is installed, route the wire harnesses through the plastic grommets (installed in the economizer panels) and reconnect both sensors.



NOTE: The second leak detection system is located on the opposite side of the unit. Viewed from the outside, the location is a mirror of the drawing above.

Easily Accessible Gauge Ports

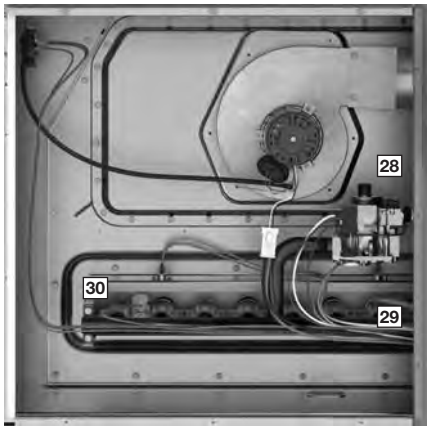


To the right left of the compressor compartment are the easily accessible gauge ports. They are identified by labeling that identifies the compressor circuit, high pressure connection, **(26)** and low pressure connection **(27)**. Because the gauge ports are mounted externally, an accurate diagnostic of system operation can be performed without removing access panels. Brass caps on the Schrader fitting ensure the gauge parts are leak proof.

Furnace & Patented Velocifin Gas Heat Exchanger

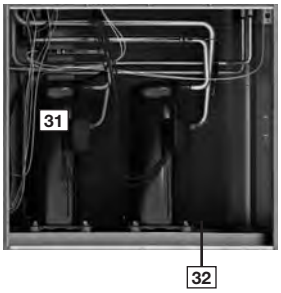
The furnace compartment contains the latest technology on the market. Each furnace is equipped with a two-stage gas valve **(28)** to provide two stages of gas heat input. The first stage operates at 70% of the second stage (full fire), 81% steady state efficiency is maintained. Stainless steel heat exchangers can be factory-installed for those applications that have high fresh-air requirements or in applications with corrosive environments. The direct spark igniter **(29)** ensures reliable ignition in the most adverse conditions. This is coupled with remote flame sensor **(30)** so the flame is carried across the entire length of the burner assembly. Gas supply can be routed from the side or up through the base. Each furnace has the following safety devices to ensure consistent and reliable operation after ignition:

- Stainless steel heat exchanger warranty increases from 10 years to 20 years.
- Pressures switches to ensure adequate combustion airflow before ignition.
- Rollout switches to prevent obstruction or cracks in the heat exchanger.
- A limit device to protect the furnace from over-temperature problems.



Compressor

The compressor compartment houses the heartbeat of the unit. The scroll compressor **(31)** is known for its long life and for reliable, quiet, and efficient operation. Each compressor has 4 rubber grommets **(32)** on the bottom for sound and vibration dampening. These units have two stages of efficient cooling operation in which the first stage is approximately 50% of second stage. Each unit comes standard with a filter dryer.



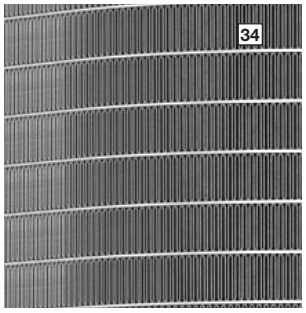
Condenser Fans

The condenser fan motors **(33)** can easily be accessed and maintained through the top of the unit. The 15 ton unit has down-mount fans which provide corrosion protection and easy removal. The 17.5, 20, and 25 ton models are designed with up-mounted fans. The polarized plug connection allows the motor to be changed quickly and eliminates the need to snake wires through the unit.



MicroChannel Condenser Technology

The outdoor coil uses the latest MicroChannel technology **(34)** for the most effective method of heat transfer. The outdoor coil is protected by optional louvered panels, which allow unobstructed airflow while protecting the unit from both the environment and vandalism.



Coil Coating

Every unit offers the option of factory-applied ElectroFin® E-Coat condenser coating **(35)** that delivers superior corrosion resistance for outdoor coils to operate in the harshest of environments.



Economizer and Dampers

Each unit is designed for both down flow or horizontal applications for job configuration flexibility. The return air compartment can also contain an economizer **(36)**. Each unit is pre-wired for the economizer to allow quick, plug-in installation. Available as a factory-installed option, the economizer provides free cooling when outdoor conditions are suitable and also provides fresh air to meet local requirements. It comes standard with single enthalpy controls, which can be upgraded to dual enthalpy easily in the field. The economizer control has a minimum position set point, an outdoor-air set point, a mixed-air set point, and a CO_2 set point. Barometric relief is standard on all economizers.



Power Exhaust is easily field-installed. The power exhaust is housed in the barometric relief opening and is easily slipped in with a plugin assembly. The wire harness to the economizer also has accommodations for a smoke detector.

The damper minimum position, actual damper position, power exhaust on/off set point, mixed air temperature limit set point, and Demand Controlled Ventilation (DCV) set point can be read and adjusted at the unit controller display or remotely through a network connection. The Space CO_2 level, mixed air temperature, and Economizer Status (free cooling available, single or dual enthalpy) can be read at the unit controller display or remotely through a network connection. Economizer faults will trigger a network alarm and can be read at the unit controller display or remotely through a network connection.

Roofcurb

The roofcurb is made for tool-less assembly at the jobsite by engaging tabs in slots of adjacent curb sides, which makes the assembly process quick and easy.

R	GE	G	Y	B	180	A	C	F	32	2	B	A	****
1	23	4	5	6	789	10	11	12	13 14	15	16	17	18 19 20 21

1—Brand
R = Rheem

2, 3—Unit Type
GE = Packaged Gas/Electric

4—Cabinet Type
G = Large Commercial

5—Refrigerant
Y = R-454B

6—Efficiency Tier
B = Standard Efficiency

7, 8, 9—Capacity
180 = 15 Ton
210 = 17.5 Ton
240 = 20 Ton
300 = 25 Ton

10—Major Series
A = 1st Design

11—Voltage
C = 3 PH/208-230 V/60 Hz
D = 3 PH/460 V/60 Hz
Y = 3 PH/575 V/60 Hz

12—Drive
F = Belt Drive - VFD Low
G = Belt Drive - VFD Medium
H = Belt Drive - VFD High

13, 14—Heat Capacity
24 = 240,000 Btu/h[1]
32 = 320,000 Btu/h
40 = 400,000 Btu/h[2]

15—Heat Configuration
2 = 2-Stage
B = 2-Stage Stainless

16—Control
B = Core Command™ & Phase Monitor
C = ClearControl & Phase Monitor
D = ClearControl & Comfort Alert

17—Minor Series
A = 1st design

18, 19, 20, 21—Option Code
AA0A

[1]Only offered on 15 and 17.5 ton models
[2]Only offered on 20 and 25 ton models

FACTORY-INSTALLED OPTION CODES FOR RGEG (15 TO 25 TON)

18	19	20	21
LV = Louver protection	LF - Low Ambient / Freeze Stat	EC = Downflow Economizer	M8 = MERV 8 Filter
HA = Hinged Access	NP = Non-Powered Convenience Outlet	RS = Return Smoke Detector	M13 = MERV 13 Filter
CC = Condenser Coil Coating			
	DC[1] = Disconnect	SS = Supply Smoke Detector	
	CB = Circuit Breaker		
	PC = Powered Convenience Outlet		

OPTION CODE CHARACTER HIGHLIGHTED

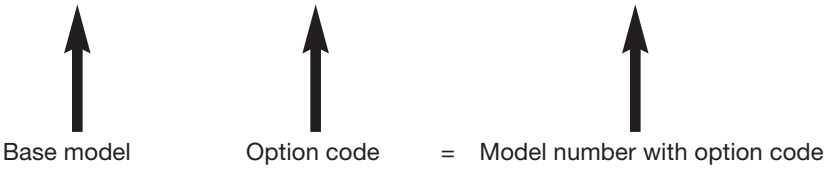
A	None			**A**	None			**0**	None		**A**	Standard
B	LV			**B**	LF			**1**	EC		**D**	M8
C	HA			**C**	NP			**2**	RS		**G**	M13
D	LV	HA		**D**	LF	NP		**3**	EC	RS		
E	LV	CC		**E**	DC			**4**	SS			
F	LV	HA	CC	**F**	LF	DC		**5**	EC	SS		
				H	NP	DC						
				K	LF	NP	DC					
				L	CB							
				M	LF	CB						
				N	PC	CB						
				P	NP	CB						
				Q	LF	PC	CB					
				R	LF	NP	CB					

[1]Not available on 25 ton models with C Voltage

Instructions for Factory-Installed Option(s) Selection

Note: Four characters following the model number will be utilized to designate a factory-installed option or combination of options. If no factory option(s) is required, “AA0A” follows the model number.

- **Step 1:** In the table above, based on the desired features, choose option code character from highlighted options on the left side under the number 18. For example, the option code character “E” has Louver protection and Coil Coating.
- **Step 2:** In the table above, based on the desired features, choose option code character from highlighted options on the left side under the number 19. For example, the option code character “D” has Low Ambient/Freeze Stat and Non-powered convenience outlet.
- **Step 3:** In the table above, based on the desired features, choose option code character from highlighted options on the left side under the number 20. For example, the option code character “3” has Economizer and Return Smoke.
- **Step 4:** In the table above, based on the desired features, choose option code from highlighted options on the left side under the number 21. For example, the option code character “D” has MERV 8 filters.
- The resulting option code from examples above is: “ED3D”.
- **Step 5:** Add your option code selection to the end of model number.
  - Example: RGEGYB180ACF24BBA ED3D = RGEGYB180ACF24BBAED3D



To select an RGEG Cooling and Heating unit to meet a job requirement, follow this procedure, with example, using data supplied in this specification sheet.

1. DETERMINE COOLING AND HEATING REQUIREMENTS AND SPECIFIC OPERATING CONDITIONS FROM PLANS AND SPECS.

Example:

Voltage—	208/240V – 3 Phase - 60 Hz
Total cooling capacity—	175,000 Btu/h [51.2 kW]
Sensible cooling capacity—	140,000 Btu/h [41.0 kW]
Heating capacity—	175,000 Btu/h [51.2 kW]
*Condenser Entering Air—	95°F [35°C] DB
*Evaporator Mixed Air Entering—	65°F [18°C] WB; 78°F [26°C] DB
*Indoor Air Flow (vertical)—	6400 CFM [3020 L/s]
*External Static Pressure—	.70 in. WG

2. SELECT UNIT TO MEET COOLING REQUIREMENTS.

Since total cooling is within the range of a nominal 15 ton [35.2 kW] unit, enter cooling performance table at 95°F [35°C] DB condenser inlet air. Interpolate between 63°F [2°C] and 67°F [19°C] to determine total and sensible capacity and power input for 65°F [18°C] WB evap inlet air at 3750 CFM [1770 L/s] indoor air flow (table basis):

Total Capacity = 176,770 Btu/h [51.8 kW]
Sensible Capacity = 138,000 Btu/h [40.4 kW]
Power Input (Compressor and Cond. Fans) = 14,470 watts

Use formula [1.10 x CFM x (1 – DR) x (dbE – 80)] in note ① to determine sensible capacity at 80°F [26.7°C] DB evaporator entering air:

Sensible Capacity = 125,117 Btu/h [36.7 kW]

3. CORRECT CAPACITIES OF STEP 2 FOR ACTUAL AIR FLOW.

Select factors from airflow correction table at 3700 & 3800 CFM, average data [1746.2 & 1793.4 L/s] and apply to data obtained in step 2 to obtain gross capacity:

Total Capacity, 176,770 x 1.02 = 180,309 Btu/h [52.8 kW]
Sensible Capacity, 138,000 x 1.05 = 144,900 Btu/h [42.5 kW]
Power Input 14,470 x 1.01 = 14,610 Watts

These are Gross Capacities, not corrected for blower motor heat or power.

4. DETERMINE BLOWER SPEED AND WATTS TO MEET SYSTEM DESIGN.

Enter Indoor Blower performance table at 6400 CFM, [3020 L/s]. Total ESP (external static pressure) per the spec of .60 in. WG [0.15kPA] includes the system duct and grilles. Add from the table “Component Air Resistance,” 0.05 in. WG [0.01 kPa] for wet coil, for a total selection static pressure of .65 (.7) in. WG [0.17 kPa], and use the Airflow Performance Downflow table to determine:

RPM = 794
BHP = 3.09 [2,304 Watts]
DRIVE = F (3 H.P. motor)

5. CALCULATE INDOOR BLOWER Btu/h HEAT EFFECT FROM MOTOR WATTS, STEP 4.

Btu/h = 2,304 x 3.412 = 7,861

6. CALCULATE NET COOLING CAPACITIES, EQUAL TO GROSS CAPACITY, STEP 3, MINUS INDOOR BLOWER MOTOR HEAT.

Net Total Capacity = 180,309 (step 3) – 7,861 (step 5) = 172,448 Btu/h [50.5 kW]
Net Sensible Capacity = 144,900 (step 3) – 7,861 (step 5) = 137,039 Btu/h [40.1 kW]

7. CALCULATE UNIT INPUT AND JOB EER.

Total Power Input = 14,610 (step 3) + 2,304 (step 4) = 16,914 Watts

$$EER = \frac{\text{Net Total Btu/h [kW] (step 6)}}{\text{Power Input, Watts (above)}} = \frac{172,448}{16,914} = 10.2$$

8. SELECT UNIT HEATING CAPACITY.

From Physical Data Table read that gas heating output (input rating x efficiency) is:

Heating Capacity = 320,000 x 0.81 = 259,200 Btu/h [76.0 kW]

Choose Model RGEGYB180ACF322BAA0A

*NOTE: These operating conditions are typical of a commercial application in a 95°F/79°F [35°C/26°C] design area with indoor design of 76°F [24°C] DB and 50% RH and 10% ventilation air, with the unit roof mounted and centered on the zone it conditions by ducts.

[ ] Designates Metric Conversions

GENERAL DATA — RGEGYB — 15–25 TON

Model RGEGYB Series	180	210	240	300
Cooling Performance[A]				
Gross Cooling Capacity Btu/h [kW]	180,000 [52.75]	210,000 [61.55]	240,000 [70.34]	300,000 [87.92]
EER	10.8	10.8	10.8	9.8
IEER[B]	14	14	14	13
Nominal CFM/AHRI Rated CFM [L/s]	6,000/5,475 [2,831/2,584]	7,000/7,020 [3,304/3,313]	8,000/7,400 [3,775/3,492]	10,000/9,350 [4,719/4,413]
AHRI Net Cooling Capacity Btu/h [kW]	172,000 [50.4]	196,000 [57.4]	228,000 [66.8]	284,000 [83.2]
Net Sensible Capacity Btu/h [kW]	129,000 [37.8]	147,000 [43.1]	171,000 [50.1]	213,000 [62.4]
Net Latent Capacity Btu/h [kW]	43,000 [12.6]	49,000 [14.4]	57,000 [16.7]	71,000 [20.8]
Net System Power kW	15.12	17.08	20.23	27.43
Compressor				
No./Type	2/ Scroll	2/ Scroll	2/ Scroll	2/ Scroll
No. Stages	2	2	2	2
Outdoor Sound Rating (dB)[C]	83	92	96	98
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	36.3 [3.37]	46.2 [4.29]	46.2 [4.29]	46.2 [4.29]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1.25 [31.8]
Face Area sq. ft. [sq. m]	23.8 [2.21]	23.8 [2.21]	23.8 [2.21]	23.8 [2.21]
Rows / FPI [FPcm]	1 / 18 [7]	1 / 18 [7]	1 / 18 [7]	1 / 18 [7]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/30 [762]	2/30 [762]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	12,000 [5,663]	14,000 [6,607]	16,800 [7,928]	19,000 [8,966]
No. Motors at HP	2 at 3/4 HP	2 at 1 1/2 HP	2 at 1 1/2 HP	2 at 1 1/2 HP
Motor RPM	1,100	1,140	1,140	1,140
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/15x15 [381x381]	2/15x15 [381x381]	2/15x15 [381x381]	2/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor RPM	1,725	1,725	1,755	1,760
Motor Frame Size (F / G Package)	56 / 184	56 / 184	184 / 213	213 / 215
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(8) 2x24x20 [51x610x508]	(8) 2x24x20 [51x610x508]	(8) 2x24x20 [51x610x508]	(8) 2x24x20 [51x610x508]
Refrigerant Charge Oz. [g] Circuit 1 / Circuit 2	167 [4,720]/170 [4,805]	213 [6,038]/213 [6,038]	196 [5,557]/204 [5,783]	206 [5,840]/210 [5,953]
Weights				
Net Weight lbs. [kg]	2,041 [926]	2,101 [953]	2,135 [969]	2,211 [1,003]
Ship Weight lbs. [kg]	2,141 [971]	2,181 [989]	2,235 [1,014]	2,311 [1,048]

See Page 15 for Notes.

[ ] Designates Metric Conversions

NOTES:

A. Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal CFM. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 340/360.

B. EER is rated at AHRI conditions and in accordance with DOE test procedures. Integrated Energy Efficiency Ratio (IEER) is rated in accordance with AHRI Standard 340/360.

C. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270

Please look at the rating plates pasted on the side of the unit to understand the model number of your unit.

WEIGHTED SOUND POWER LEVEL (dBA)

MODEL	STD. RATING (dBA)	FREQUENCY (Hz)							
		63	125	250	500	1000	2000	4000	8000
RGEGYB180	79.29	59	63	70	73	73	70	65	57
RGEGYB210	85.35	68	67	74	80	82	77	70	62
RGEGYB240	85.56	61	71	76	79	81	78	72	67
RGEGYB300	87.89	71	73	78	82	84	81	75	69

RGEGYB HEATING PERFORMANCE

TONNAGE	15/17.5 TON	15/17.5/20/25 TON	20/25 TON
Heating Input Btu/h [kW] (High-Fire/Low-Fire)	240,000/168,000 [70.27/49.19]	320,000/224,000 [93.76/65.59]	400,000 /280,000 [117.2/81.99]
Heating Output Btu/h [kW] (High-Fire/Low-Fire)	194,400/136,080 [56.96/39.84]	259,200/181,440 [75.94/53.13]	323,000/226,800 [94.64/66.41]
High-Fire Rise Range °F [°C]	25-55 [13.9-30.6]		
Low-Fire Rise Range °F [°C]	25-55 [13.9-30.6]		
Main limit Temp °F	140	135	140
Rollout Temp °F	300	300	350
Rating ESP In. W.C	0.33		
Maximum ESP in. W.C	2.00		
Max outlet Air Temp °F [°C]	200 [93.33]		
% Steady State Efficiency	81%		

[ ] Designates Metric Conversions

COOLING PERFORMANCE DATA—RGEGYB180

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			7100 [3351]	5475 [2584]	4750 [2242]	7100 [3351]	5475 [2584]	4750 [2242]	7100 [3351]	5475 [2584]	4750 [2242]
DR ①			.05	.09	.12	.05	.09	.12	.05	.09	.12
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total kBtu/h [kW]	220.1 [64.5]	208.9 [61.2]	203.8 [59.7]	207.5 [60.8]	196.8 [57.7]	192.1 [56.3]	194.8 [57.1]	184.8 [54.2]	180.4 [52.9]
		Sens kBtu/h [kW]	130.5 [38.2]	114.6 [33.6]	107.5 [31.5]	155.8 [45.7]	136.9 [40.1]	128.4 [37.6]	181.2 [53.1]	159.1 [46.6]	149.3 [43.8]
		Power	13.2	12.9	12.7	13.1	12.8	12.6	12.9	12.6	12.4
	80 [26.7]	Total kBtu/h [kW]	215.1 [63.0]	204.1 [59.8]	199.2 [58.4]	202.4 [59.3]	192.1 [56.3]	187.4 [54.9]	189.8 [55.6]	180 [52.8]	175.7 [51.5]
		Sens kBtu/h [kW]	128.1 [37.5]	112.5 [33.0]	105.5 [30.9]	153.4 [45.0]	134.8 [39.5]	126.4 [37]	178.8 [52.4]	157 [46.0]	147.3 [43.2]
		Power	14.0	13.6	13.4	13.8	13.5	13.3	13.7	13.3	13.2
	85 [29.4]	Total kBtu/h [kW]	210.1 [61.6]	199.3 [58.4]	194.5 [57.0]	197.4 [57.9]	187.3 [54.9]	182.8 [53.6]	184.7 [54.1]	175.3 [51.4]	171.0 [50.1]
		Sens kBtu/h [kW]	125.7 [36.8]	110.4 [32.4]	103.6 [30.4]	151.0 [44.3]	132.6 [38.9]	124.4 [36.5]	176.3 [51.7]	154.9 [45.4]	145.3 [42.6]
		Power	14.7	14.3	14.1	14.6	14.2	14.0	14.4	14.0	13.9
	90 [32.2]	Total kBtu/h [kW]	205.0 [60.1]	194.6 [57.0]	189.9 [55.7]	192.4 [56.4]	182.5 [53.5]	178.1 [52.2]	179.7 [52.7]	170.5 [50.0]	166.4 [48.8]
		Sens kBtu/h [kW]	123.3 [36.1]	108.3 [31.7]	101.6 [29.8]	148.6 [43.6]	130.5 [38.2]	122.5 [35.9]	173.9 [51]	152.8 [44.8]	143.3 [42.0]
		Power	15.4	15.0	14.9	15.3	14.9	14.7	15.1	14.7	14.6
	95 [35]	Total kBtu/h [kW]	200.0 [58.6]	189.8 [55.6]	185.2 [54.3]	187.3 [54.9]	177.8 [52.1]	173.5 [50.8]	174.7 [51.2]	165.7 [48.6]	161.7 [47.4]
		Sens kBtu/h [kW]	120.9 [35.4]	106.2 [31.1]	99.6 [29.2]	146.2 [42.8]	128.4 [37.6]	120.5 [35.3]	171.5 [50.3]	150.7 [44.2]	141.3 [41.4]
		Power	16.2	15.7	15.6	16.0	15.6	15.4	15.9	15.5	15.3
	100 [37.8]	Total kBtu/h [kW]	195.0 [57.2]	185.0 [54.2]	180.6 [52.9]	182.3 [53.4]	173.0 [50.7]	168.8 [49.5]	169.6 [49.7]	161.0 [47.2]	157.1 [46.0]
		Sens kBtu/h [kW]	118.4 [34.7]	104.0 [30.5]	97.6 [28.6]	143.8 [42.1]	126.3 [37.0]	118.5 [34.7]	169.1 [49.6]	148.5 [43.5]	139.4 [40.9]
		Power	16.9	16.5	16.3	16.8	16.3	16.2	16.6	16.2	16.0
	105 [40.6]	Total kBtu/h [kW]	190.0 [55.7]	180.2 [52.8]	175.9 [51.6]	177.3 [52.0]	168.2 [49.3]	164.2 [48.1]	164.6 [48.2]	156.2 [45.8]	152.4 [44.7]
		Sens kBtu/h [kW]	116.0 [34.0]	101.9 [29.9]	95.6 [28.0]	141.4 [41.4]	124.2 [36.4]	116.5 [34.1]	164.6 [48.2]	146.4 [42.9]	137.4 [40.3]
		Power	17.6	17.2	17.0	17.5	17.1	16.9	17.3	16.9	16.7
	110 [43.3]	Total kBtu/h [kW]	184.9 [54.2]	175.5 [51.4]	171.2 [50.2]	172.3 [50.5]	163.4 [47.9]	159.5 [46.7]	159.6 [46.8]	151.4 [44.4]	147.8 [43.3]
		Sens kBtu/h [kW]	113.6 [33.3]	99.8 [29.2]	93.6 [27.4]	139.0 [40.7]	122.1 [35.8]	114.5 [33.6]	159.6 [46.8]	144.3 [42.3]	135.4 [39.7]
		Power	18.4	17.9	17.7	18.2	17.8	17.6	18.1	17.6	17.4
	115 [46.1]	Total kBtu/h [kW]	179.9 [52.7]	170.7 [50.0]	166.6 [48.8]	167.2 [49.0]	158.7 [46.5]	154.9 [45.4]	154.6 [45.3]	146.7 [43.0]	143.1 [41.9]
		Sens kBtu/h [kW]	111.2 [32.6]	97.7 [28.6]	91.6 [26.8]	136.5 [40.0]	119.9 [35.1]	112.5 [33.0]	154.6 [45.3]	142.2 [41.7]	133.4 [39.1]
		Power	19.1	18.6	18.4	19.0	18.5	18.3	18.8	18.3	18.1
	120 [48.9]	Total kBtu/h [kW]	174.9 [51.3]	165.9 [48.6]	161.9 [47.5]	162.2 [47.5]	153.9 [45.1]	150.2 [44.0]	149.5 [43.8]	141.9 [41.6]	138.5 [40.6]
		Sens kBtu/h [kW]	108.8 [31.9]	95.6 [28.0]	89.7 [26.3]	134.1 [39.3]	117.8 [34.5]	110.5 [32.4]	149.5 [43.8]	140.1 [41.1]	131.4 [38.5]
		Power	19.8	19.3	19.1	19.7	19.2	19.0	19.5	19.0	18.8
	125 [51.7]	Total kBtu/h [kW]	169.9 [49.8]	161.2 [47.2]	157.3 [46.1]	157.2 [46.1]	149.1 [43.7]	145.6 [42.7]	144.5 [42.4]	137.1 [40.2]	133.8 [39.2]
		Sens kBtu/h [kW]	106.4 [31.2]	93.4 [27.4]	87.7 [25.7]	131.7 [38.6]	115.7 [33.9]	108.6 [31.8]	144.5 [42.4]	137.1 [40.2]	129.4 [37.9]
		Power	20.6	20.0	19.8	20.4	19.9	19.7	20.3	19.8	19.5

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb
Total —Total capacity x 1000 Btu/h
Sens —Sensible capacity x 1000 Btu/h
Power —kW input

NOTES:
① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[ ] Designates Metric Conversions

COOLING PERFORMANCE DATA—RGEGYB210

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			8100 [3823]	7000 [3304]	5400 [2549]	8100 [3823]	7000 [3304]	5400 [2549]	8100 [3823]	7000 [3304]	5400 [2549]
DR ①			.05	.09	.12	.05	.09	.12	.05	.09	.12
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total kBtu/h [kW]	243.6 [71.4]	236.9 [69.4]	227.0 [66.5]	228.0 [66.8]	221.6 [64.9]	212.4 [62.3]	213.7 [62.6]	207.8 [60.9]	199.1 [58.4]
		Sens kBtu/h [kW]	138.3 [40.5]	128.9 [37.8]	115.1 [33.7]	165.2 [48.4]	154.0 [45.1]	137.5 [40.3]	190.9 [55.9]	177.8 [52.1]	158.9 [46.6]
		Power	15.1	14.9	14.6	15.1	14.9	14.6	14.9	14.7	14.4
	80 [26.7]	Total kBtu/h [kW]	239.3 [70.1]	232.7 [68.2]	223.0 [65.4]	223.6 [65.5]	217.4 [63.7]	208.4 [61.1]	209.4 [61.4]	203.6 [59.7]	195.1 [57.2]
		Sens kBtu/h [kW]	137.0 [40.2]	127.7 [37.4]	114.0 [33.4]	163.9 [48.0]	152.7 [44.8]	136.4 [40.0]	189.6 [55.6]	176.6 [51.8]	157.8 [46.2]
		Power	15.9	15.7	15.4	15.9	15.7	15.3	15.7	15.5	15.2
	85 [29.4]	Total kBtu/h [kW]	234.5 [68.7]	228.0 [66.8]	218.5 [64.0]	218.8 [64.1]	212.8 [62.4]	203.9 [59.8]	204.6 [60.0]	198.9 [58.3]	190.6 [55.9]
		Sens kBtu/h [kW]	135.3 [39.7]	126.1 [37.0]	112.6 [33.0]	162.2 [47.5]	151.1 [44.3]	135.0 [39.6]	187.8 [55.0]	175.0 [51.3]	156.3 [45.8]
		Power	16.7	16.5	16.2	16.7	16.4	16.1	16.5	16.3	15.9
	90 [32.2]	Total kBtu/h [kW]	229.3 [67.2]	222.9 [65.3]	213.7 [62.6]	213.6 [62.6]	207.7 [60.9]	199.1 [58.4]	199.4 [58.4]	193.8 [56.8]	185.8 [54.5]
		Sens kBtu/h [kW]	133.2 [39.0]	124.1 [36.4]	110.9 [32.5]	160.1 [46.9]	149.2 [43.7]	133.3 [39.1]	185.7 [54.4]	173.0 [50.7]	154.6 [45.3]
		Power	17.5	17.3	16.9	17.5	17.2	16.9	17.3	17.1	16.7
	95 [35]	Total kBtu/h [kW]	223.6 [65.5]	217.4 [63.7]	208.4 [61.1]	208.0 [61.0]	202.2 [59.3]	193.8 [56.8]	193.7 [56.8]	188.3 [55.2]	180.5 [52.9]
		Sens kBtu/h [kW]	130.7 [38.3]	121.8 [35.7]	108.8 [31.9]	157.6 [46.2]	146.8 [43]	131.2 [38.5]	183.2 [53.7]	170.7 [50.0]	152.5 [44.7]
		Power	18.3	18.1	17.7	18.3	18.0	17.7	18.1	17.9	17.5
	100 [37.8]	Total kBtu/h [kW]	217.5 [63.7]	211.5 [62.0]	202.7 [59.4]	201.9 [59.2]	196.3 [57.5]	188.1 [55.1]	187.6 [55.0]	182.4 [53.5]	174.8 [51.2]
		Sens kBtu/h [kW]	127.8 [37.5]	119.0 [34.9]	106.3 [31.2]	154.7 [45.3]	144.1 [42.2]	128.7 [37.7]	180.3 [52.8]	168.0 [49.2]	150.1 [44.0]
		Power	19.1	18.9	18.5	19.1	18.8	18.4	18.9	18.6	18.3
	105 [40.6]	Total kBtu/h [kW]	211.0 [61.8]	205.1 [60.1]	196.6 [57.6]	195.3 [57.2]	189.9 [55.7]	182.0 [53.3]	181.1 [53.1]	176.0 [51.6]	168.7 [49.4]
		Sens kBtu/h [kW]	124.5 [36.5]	116.0 [34.0]	103.6 [30.4]	151.4 [44.4]	141.0 [41.3]	126.0 [36.9]	177.0 [51.9]	164.9 [48.3]	147.3 [43.2]
		Power	19.9	19.7	19.3	19.9	19.6	19.2	19.7	19.4	19
	110 [43.3]	Total kBtu/h [kW]	204.0 [59.8]	198.3 [58.1]	190.1 [55.7]	188.3 [55.2]	183.1 [53.7]	175.5 [51.4]	174.1 [51.0]	169.2 [49.6]	162.2 [47.5]
		Sens kBtu/h [kW]	120.7 [35.4]	112.5 [33.0]	100.5 [29.5]	147.6 [43.3]	137.6 [40.3]	122.9 [36.0]	173.3 [50.8]	161.4 [47.3]	144.2 [42.3]
		Power	20.7	20.4	20.0	20.7	20.4	20.0	20.5	20.2	19.8
	115 [46.1]	Total kBtu/h [kW]	196.6 [57.6]	191.1 [56.0]	183.2 [53.7]	180.9 [53.0]	175.9 [51.6]	168.6 [49.4]	166.6 [48.8]	162.0 [47.5]	155.3 [45.5]
		Sens kBtu/h [kW]	116.6 [34.2]	108.7 [31.9]	97.1 [28.5]	143.5 [42.1]	133.7 [39.2]	119.5 [35.0]	166.6 [48.8]	157.6 [46.2]	140.8 [41.3]
		Power	21.5	21.2	20.8	21.5	21.2	20.7	21.3	21.0	20.6
	120 [48.9]	Total kBtu/h [kW]	188.7 [55.3]	183.5 [53.8]	175.8 [51.5]	173.0 [50.7]	168.2 [49.3]	161.2 [47.2]	158.8 [46.5]	154.4 [45.3]	147.9 [43.3]
		Sens kBtu/h [kW]	112.1 [32.9]	104.4 [30.6]	93.3 [27.3]	139.0 [40.7]	129.5 [38.0]	115.7 [33.9]	158.8 [46.5]	153.4 [45.0]	137.0 [40.2]
		Power	22.3	22.0	21.6	22.3	21.9	21.5	22.1	21.8	21.3
	125 [51.7]	Total kBtu/h [kW]	180.4 [52.9]	175.4 [51.4]	168.1 [49.3]	164.7 [48.3]	160.1 [46.9]	153.5 [45.0]	150.4 [44.1]	146.3 [42.9]	140.2 [41.1]
		Sens kBtu/h [kW]	107.2 [31.4]	99.9 [29.3]	89.2 [26.1]	134.1 [39.3]	124.9 [36.6]	111.6 [32.7]	150.4 [44.1]	146.3 [42.9]	132.9 [39.0]
		Power	23.1	22.8	22.3	23.1	22.7	22.3	22.9	22.6	22.1

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb
Total —Total capacity x 1000 Btu/h
Sens —Sensible capacity x 1000 Btu/h
Power —kW input

NOTES:
① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[ ] Designates Metric Conversions

COOLING PERFORMANCE DATA—RGEGYB240

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			9700 [4578]	7400 [3492]	6475 [3056]	9700 [4578]	7400 [3492]	6475 [3056]	9700 [4578]	7400 [3492]	6475 [3056]
DR ①			.05	.09	.12	.05	.09	.12	.05	.09	.12
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total kBtu/h [kW]	313.9 [92.0]	297.1 [87.1]	290.4 [85.1]	282.7 [82.9]	267.6 [78.4]	261.5 [76.6]	264.5 [77.5]	250.3 [73.4]	244.6 [71.7]
		Sens kBtu/h [kW]	174.5 [51.1]	152.4 [44.7]	143.5 [42.1]	201.2 [59.0]	175.7 [51.5]	165.5 [48.5]	229.4 [67.2]	200.3 [58.7]	188.7 [55.3]
		Power	18.1	17.7	17.5	18.1	17.6	17.4	17.9	17.4	17.3
	80 [26.7]	Total kBtu/h [kW]	307.6 [90.2]	291.2 [85.3]	284.6 [83.4]	276.5 [81.0]	261.7 [76.7]	255.7 [74.9]	258.2 [75.7]	244.4 [71.6]	238.8 [70.0]
		Sens kBtu/h [kW]	171.7 [50.3]	149.9 [43.9]	141.2 [41.4]	198.3 [58.1]	173.2 [50.8]	163.1 [47.8]	226.6 [66.4]	197.9 [58.0]	186.3 [54.6]
		Power	19.1	18.6	18.4	19.0	18.5	18.3	18.9	18.4	18.2
	85 [29.4]	Total kBtu/h [kW]	301.1 [88.2]	285.0 [83.5]	278.5 [81.6]	269.9 [79.1]	255.5 [74.9]	249.7 [73.2]	251.6 [73.7]	238.2 [69.8]	232.8 [68.2]
		Sens kBtu/h [kW]	168.5 [49.4]	147.1 [43.1]	138.6 [40.6]	195.2 [57.2]	170.4 [49.9]	160.5 [47.0]	223.4 [65.5]	195.1 [57.2]	183.7 [53.8]
		Power	20.1	19.6	19.3	20.0	19.5	19.3	19.9	19.4	19.1
	90 [32.2]	Total kBtu/h [kW]	294.3 [86.3]	278.5 [81.6]	272.2 [79.8]	263.1 [77.1]	249.1 [73.0]	243.4 [71.3]	244.8 [71.7]	231.7 [67.9]	226.5 [66.4]
		Sens kBtu/h [kW]	165.0 [48.4]	144.1 [42.2]	135.7 [39.8]	191.6 [56.2]	167.4 [49.1]	157.6 [46.2]	219.9 [64.4]	192.0 [56.3]	180.8 [53.0]
		Power	21.1	20.5	20.3	21.0	20.4	20.2	20.9	20.3	20.1
	95 [35]	Total kBtu/h [kW]	287.2 [84.2]	271.9 [79.7]	265.7 [77.9]	256.1 [75.1]	242.4 [71.0]	236.9 [69.4]	237.8 [69.7]	225.0 [65.9]	219.9 [64.4]
		Sens kBtu/h [kW]	161.1 [47.2]	140.7 [41.2]	132.5 [38.8]	187.8 [55.0]	164.0 [48.1]	154.4 [45.3]	216.0 [63.3]	188.6 [55.3]	177.6 [52.1]
		Power	22.1	21.5	21.2	22.0	21.4	21.2	21.8	21.3	21.0
	100 [37.8]	Total kBtu/h [kW]	279.9 [82.0]	264.9 [77.6]	258.9 [75.9]	248.7 [72.9]	235.4 [69.0]	230.1 [67.4]	230.4 [67.5]	218.1 [63.9]	213.1 [62.5]
		Sens kBtu/h [kW]	156.9 [46.0]	137.0 [40.2]	129.0 [37.8]	183.6 [53.8]	160.3 [47.0]	151.0 [44.3]	211.8 [62.1]	185.0 [54.2]	174.2 [51.1]
		Power	23.0	22.4	22.2	23.0	22.3	22.1	22.8	22.2	22
	105 [40.6]	Total kBtu/h [kW]	272.3 [79.8]	257.7 [75.5]	251.9 [73.8]	241.1 [70.7]	228.2 [66.9]	223.0 [65.4]	222.8 [65.3]	210.9 [61.8]	206.1 [60.4]
		Sens kBtu/h [kW]	152.4 [44.7]	133.1 [39.0]	125.3 [36.7]	179.1 [52.5]	156.4 [45.8]	147.3 [43.2]	207.3 [60.8]	181.0 [53.0]	170.5 [50.0]
		Power	24.0	23.4	23.1	23.9	23.3	23.0	23.8	23.2	22.9
	110 [43.3]	Total kBtu/h [kW]	264.4 [77.5]	250.3 [73.4]	244.6 [71.7]	233.2 [68.3]	220.8 [64.7]	215.8 [63.2]	215.0 [63.0]	203.5 [59.6]	198.8 [58.3]
		Sens kBtu/h [kW]	147.5 [43.2]	128.9 [37.8]	121.3 [35.6]	174.2 [51.1]	152.2 [44.6]	143.3 [42.0]	202.4 [59.3]	176.8 [51.8]	166.5 [48.8]
		Power	25.0	24.3	24.1	24.9	24.3	24.0	24.8	24.1	23.9
	115 [46.1]	Total kBtu/h [kW]	256.3 [75.1]	242.6 [71.1]	237.1 [69.5]	225.1 [66.0]	213.1 [62.5]	208.2 [61.0]	206.8 [60.6]	195.8 [57.4]	191.3 [56.1]
		Sens kBtu/h [kW]	142.4 [41.7]	124.3 [36.4]	117.1 [34.3]	169.0 [49.5]	147.6 [43.3]	139.0 [40.7]	197.2 [57.8]	172.3 [50.5]	162.2 [47.5]
		Power	26.0	25.3	25	25.9	25.2	24.9	25.8	25.1	24.8
	120 [48.9]	Total kBtu/h [kW]	247.9 [72.7]	234.6 [68.8]	229.3 [67.2]	216.7 [63.5]	205.1 [60.1]	200.5 [58.8]	198.4 [58.1]	187.8 [55.0]	183.6 [53.8]
		Sens kBtu/h [kW]	136.8 [40.1]	119.5 [35.0]	112.5 [33.0]	163.5 [47.9]	142.8 [41.9]	134.5 [39.4]	191.7 [56.2]	167.4 [49.1]	157.7 [46.2]
		Power	27.0	26.2	26	26.9	26.2	25.9	26.8	26.0	25.8
	125 [51.7]	Total kBtu/h [kW]	239.2 [70.1]	226.4 [66.4]	221.3 [64.9]	208.1 [61.0]	196.9 [57.7]	192.5 [56.4]	189.8 [55.6]	179.6 [52.6]	175.5 [51.4]
		Sens kBtu/h [kW]	131.0 [38.4]	114.4 [33.5]	107.7 [31.6]	157.6 [46.2]	137.7 [40.4]	129.6 [38.0]	185.9 [54.5]	162.3 [47.6]	152.8 [44.8]
		Power	27.9	27.2	26.9	27.9	27.1	26.8	27.7	27.0	26.7

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb
Total —Total capacity x 1000 Btu/h
Sens —Sensible capacity x 1000 Btu/h
Power —kW input

NOTES:
① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[ ] Designates Metric Conversions

COOLING PERFORMANCE DATA—RGEGYB300

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			10825 [5109]	9350 [4413]	7825 [3693]	10825 [5109]	9350 [4413]	7825 [3693]	10825 [5109]	9350 [4413]	7825 [3693]
DR ①			.05	.09	.12	.05	.09	.12	.05	.09	.12
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total kBtu/h [kW]	351.2 [102.9]	341.4 [100.1]	331.3 [97.1]	329.4 [96.5]	320.2 [93.8]	310.7 [91.1]	305.6 [89.6]	297.1 [87.1]	288.3 [84.5]
		Sens kBtu/h [kW]	190.3 [55.8]	177.3 [52.0]	163.8 [48.0]	220.3 [64.6]	205.2 [60.1]	189.6 [55.6]	246.3 [72.2]	229.5 [67.3]	212.0 [62.1]
		Power	23.5	23.2	22.9	23.4	23.0	22.7	23.2	22.9	22.6
	80 [26.7]	Total kBtu/h [kW]	343.4 [100.6]	333.8 [97.8]	323.9 [94.9]	321.6 [94.3]	312.6 [91.6]	303.4 [88.9]	297.8 [87.3]	289.5 [84.8]	281.0 [82.4]
		Sens kBtu/h [kW]	186.6 [54.7]	173.8 [50.9]	160.5 [47.0]	216.6 [63.5]	201.7 [59.1]	186.4 [54.6]	242.6 [71.1]	226.0 [66.2]	208.8 [61.2]
		Power	24.7	24.4	24	24.5	24.2	23.8	24.4	24.0	23.7
	85 [29.4]	Total kBtu/h [kW]	335.4 [98.3]	326.1 [95.6]	316.4 [92.7]	313.6 [91.9]	304.9 [89.4]	295.8 [86.7]	289.9 [85.0]	281.8 [82.6]	273.4 [80.1]
		Sens kBtu/h [kW]	182.8 [53.6]	170.2 [49.9]	157.3 [46.1]	212.7 [62.3]	198.2 [58.1]	183.1 [53.7]	238.8 [70.0]	222.4 [65.2]	205.5 [60.2]
		Power	25.9	25.6	25.2	25.8	25.4	25.1	25.6	25.3	24.9
	90 [32.2]	Total kBtu/h [kW]	327.2 [95.9]	318.1 [93.2]	308.7 [90.5]	305.4 [89.5]	296.9 [87.0]	288.1 [84.4]	281.7 [82.6]	273.8 [80.2]	265.7 [77.9]
		Sens kBtu/h [kW]	178.9 [52.4]	166.6 [48.8]	153.9 [45.1]	208.8 [61.2]	194.5 [57.0]	179.7 [52.7]	234.9 [68.8]	218.8 [64.1]	202.1 [59.2]
		Power	27.2	26.9	26.5	27.1	26.7	26.3	26.9	26.5	26.2
	95 [35]	Total kBtu/h [kW]	318.8 [93.4]	310.0 [90.9]	300.8 [88.2]	297.0 [87.0]	288.8 [84.6]	280.2 [82.1]	273.3 [80.1]	265.7 [77.9]	257.8 [75.6]
		Sens kBtu/h [kW]	174.9 [51.3]	162.9 [47.7]	150.5 [44.1]	204.9 [60.1]	190.8 [55.9]	176.3 [51.7]	230.9 [67.7]	215.1 [63.0]	198.7 [58.2]
		Power	28.6	28.2	27.8	28.4	28.0	27.6	28.3	27.9	27.5
	100 [37.8]	Total kBtu/h [kW]	310.3 [90.9]	301.6 [88.4]	292.7 [85.8]	288.5 [84.6]	280.4 [82.2]	272.1 [79.7]	264.7 [77.6]	257.3 [75.4]	249.7 [73.2]
		Sens kBtu/h [kW]	170.8 [50.1]	159.1 [46.6]	147.0 [43.1]	200.8 [58.9]	187.1 [54.8]	172.8 [50.6]	226.9 [66.5]	211.3 [61.9]	195.2 [57.2]
		Power	30.0	29.6	29.2	29.8	29.4	29.0	29.7	29.3	28.9
	105 [40.6]	Total kBtu/h [kW]	301.5 [88.4]	293.1 [85.9]	284.4 [83.4]	279.7 [82.0]	271.9 [79.7]	263.8 [77.3]	255.9 [75.0]	248.8 [72.9]	241.4 [70.8]
		Sens kBtu/h [kW]	166.7 [48.9]	155.3 [45.5]	143.5 [42.1]	196.7 [57.6]	183.2 [53.7]	169.3 [49.6]	222.7 [65.3]	207.5 [60.8]	191.7 [56.2]
		Power	31.5	31.1	30.6	31.3	30.9	30.5	31.2	30.7	30.3
	110 [43.3]	Total kBtu/h [kW]	292.5 [85.7]	284.4 [83.4]	275.9 [80.9]	270.7 [79.3]	263.2 [77.1]	255.4 [74.9]	247.0 [72.4]	240.1 [70.4]	233.0 [68.3]
		Sens kBtu/h [kW]	162.5 [47.6]	151.4 [44.4]	139.8 [41.0]	192.5 [56.4]	179.3 [52.5]	165.6 [48.5]	218.5 [64.0]	203.5 [59.6]	188.1 [55.1]
		Power	33.0	32.6	32.1	32.9	32.4	32.0	32.7	32.3	31.8
	115 [46.1]	Total kBtu/h [kW]	283.4 [83.1]	275.5 [80.7]	267.3 [78.3]	261.5 [76.6]	254.3 [74.5]	246.7 [72.3]	237.8 [69.7]	231.2 [67.8]	224.3 [65.7]
		Sens kBtu/h [kW]	158.2 [46.4]	147.4 [43.2]	136.1 [39.9]	188.2 [55.2]	175.3 [51.4]	161.9 [47.5]	214.2 [62.8]	199.6 [58.5]	184.4 [54.0]
		Power	34.6	34.2	33.7	34.5	34.0	33.5	34.3	33.8	33.4
	120 [48.9]	Total kBtu/h [kW]	274.0 [80.3]	266.4 [78.1]	258.5 [75.8]	252.2 [73.9]	245.2 [71.9]	237.9 [69.7]	228.4 [66.9]	222.1 [65.1]	215.5 [63.2]
		Sens kBtu/h [kW]	153.8 [45.1]	143.3 [42.0]	132.4 [38.8]	183.8 [53.9]	171.2 [50.2]	158.2 [46.4]	209.9 [61.5]	195.5 [57.3]	180.6 [52.9]
		Power	36.3	35.8	35.3	36.1	35.6	35.1	36.0	35.5	35.0
	125 [51.7]	Total kBtu/h [kW]	264.5 [77.5]	257.1 [75.4]	249.5 [73.1]	242.6 [71.1]	235.9 [69.1]	228.9 [67.1]	218.9 [64.2]	212.8 [62.4]	206.5 [60.5]
		Sens kBtu/h [kW]	149.4 [43.8]	139.2 [40.8]	128.6 [37.7]	179.4 [52.6]	167.1 [49.0]	154.4 [45.3]	205.4 [60.2]	191.3 [56.1]	176.8 [51.8]
		Power	38.0	37.5	37.0	37.9	37.3	36.8	37.7	37.2	36.7

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb
Total —Total capacity x 1000 Btu/h
Sens —Sensible capacity x 1000 Btu/h
Power —kW input

NOTES:
① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE—15 TON — 60 Hz — DOWNFLOW

Air Flow CFM [L/s]	Model RGEGYB180 Voltage 208/230, 460, 575 — 3 phase 60 Hz																																					
	External Static Pressure—Inches of Water [kPa]																																					
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4800 [2265]	—	—	—	—	—	—	—	—	650	1.54	688	1.66	726	1.83	762	2.04	797	2.30	827	2.48	858	2.63	886	2.78	913	2.93	939	3.08	963	3.22	985	3.37	1005	3.52	1024	3.67	1045	3.75	1066	3.90
4900 [2312]	—	—	—	—	—	—	—	—	655	1.56	693	1.70	729	1.88	765	2.10	800	2.37	831	2.54	862	2.69	890	2.85	917	3.00	942	3.16	966	3.31	988	3.46	1008	3.61	1027	3.77	1049	3.87	1070	4.03
5000 [2359]	—	—	—	—	—	—	—	—	659	1.59	697	1.73	733	1.92	769	2.16	804	2.44	835	2.60	865	2.76	894	2.92	920	3.08	945	3.24	969	3.40	990	3.55	1011	3.71	1029	3.87	1052	3.99	1073	4.16
5100 [2407]	—	—	—	—	—	—	625	1.51	664	1.62	701	1.78	737	1.98	773	2.22	808	2.50	840	2.67	869	2.83	897	3.00	924	3.16	949	3.32	972	3.49	993	3.65	1013	3.81	1035	3.95	1056	4.12	1077	4.30
5200 [2454]	—	—	—	—	—	—	630	1.53	668	1.66	705	1.82	741	2.03	777	2.29	813	2.56	844	2.73	873	2.90	901	3.07	927	3.24	952	3.41	975	3.58	996	3.75	1016	3.91	1038	4.07	1060	4.25	1081	4.44
5300 [2501]	—	—	—	—	—	—	635	1.56	673	1.70	710	1.88	745	2.10	780	2.36	817	2.63	848	2.80	877	2.98	905	3.15	931	3.33	955	3.50	978	3.67	999	3.84	1018	4.01	1042	4.19	1064	4.38	1084	4.58
5400 [2548]	—	—	—	—	—	—	640	1.60	677	1.74	714	1.93	750	2.16	784	2.44	821	2.69	852	2.87	881	3.05	908	3.23	934	3.41	958	3.59	981	3.77	1002	3.94	1021	4.12	1046	4.32	1067	4.52	1088	4.72
5500 [2595]	—	—	—	—	—	—	645	1.64	682	1.79	718	1.99	754	2.24	788	2.52	826	2.76	856	2.95	885	3.13	912	3.32	938	3.50	962	3.68	984	3.86	1005	4.05	1024	4.23	1050	4.45	1071	4.65	1092	4.87
5600 [2643]	—	—	—	—	—	—	650	1.68	687	1.85	723	2.06	758	2.31	792	2.61	830	2.83	860	3.02	889	3.21	916	3.40	941	3.59	965	3.78	987	3.96	1008	4.15	1026	4.34	1054	4.58	1075	4.79	1096	5.02
5700 [2690]	—	—	—	—	—	—	655	1.73	692	1.91	727	2.13	762	2.39	796	2.70	834	2.91	864	3.10	893	3.29	920	3.49	945	3.68	968	3.87	990	4.07	1010	4.26	1029	4.45	1057	4.71	1079	4.94	1100	5.17
5800 [2737]	—	—	—	—	623	1.65	660	1.79	696	1.97	732	2.20	767	2.48	800	2.79	839	2.98	868	3.18	897	3.38	923	3.58	948	3.77	972	3.97	993	4.17	1013	4.36	1039	4.62	1061	4.85	1083	5.09	—	—
5900 [2784]	—	—	—	—	628	1.69	665	1.85	701	2.04	737	2.28	771	2.57	812	2.85	843	3.06	873	3.26	901	3.46	927	3.67	952	3.87	975	4.07	996	4.27	1016	4.47	1043	4.75	1065	4.99	1087	5.24	—	—
6000 [2831]	—	—	—	—	633	1.75	670	1.91	706	2.12	741	2.37	775	2.66	816	2.92	847	3.13	877	3.34	905	3.55	931	3.76	955	3.97	978	4.17	999	4.38	1019	4.59	1047	4.89	1069	5.13	1090	5.39	—	—
6100 [2878]	—	—	—	—	639	1.81	676	1.98	711	2.20	746	2.46	780	2.76	821	3.00	852	3.21	881	3.43	909	3.64	934	3.86	959	4.07	982	4.28	1003	4.49	1022	4.70	1051	5.03	1073	5.28	1094	5.54	—	—
6200 [2926]	—	—	—	—	644	1.87	681	2.05	716	2.28	751	2.55	784	2.87	825	3.08	856	3.30	885	3.52	912	3.73	938	3.95	962	4.17	985	4.39	1006	4.60	1025	4.82	1055	5.17	1077	5.43	1098	5.70	—	—
6300 [2973]	—	—	—	—	650	1.93	686	2.13	721	2.37	756	2.65	789	2.97	830	3.16	860	3.38	889	3.60	916	3.83	942	4.05	966	4.27	988	4.49	1009	4.71	1028	4.93	1059	5.31	1081	5.58	—	—	—	—
6400 [3020]	—	—	—	—	656	2.01	692	2.21	727	2.46	761	2.75	794	3.09	835	3.24	865	3.47	893	3.70	920	3.92	946	4.15	969	4.38	992	4.60	1012	4.83	1040	5.18	1063	5.46	1085	5.74	—	—	—	—
6500 [3067]	—	—	625	1.91	661	2.08	697	2.30	732	2.56	765	2.86	798	3.20	839	3.32	869	3.56	898	3.79	924	4.02	950	4.25	973	4.49	995	4.72	1015	4.95	1044	5.32	1067	5.61	1089	5.90	—	—	—	—
6600 [3114]	—	—	631	1.98	667	2.16	702	2.39	737	2.66	770	2.97	812	3.17	844	3.41	874	3.65	902	3.88	928	4.12	953	4.36	977	4.60	998	4.83	1018	5.07	1048	5.47	1071	5.76	1093	6.06	—	—	—	—
6700 [3162]	—	—	637	2.06	673	2.25	708	2.48	742	2.76	775	3.09	817	3.25	848	3.49	878	3.74	906	3.98	932	4.22	957	4.47	980	4.71	1002	4.95	1021	5.19	1052	5.61	1075	5.91	1097	6.22	—	—	—	—
6800 [3209]	606	1.98	643	2.14	679	2.34	714	2.58	748	2.87	781	3.21	822	3.33	853	3.58	882	3.83	910	4.08	936	4.33	961	4.57	984	4.82	1005	5.07	1025	5.31	1056	5.76	1079	6.07	—	—	—	—	—	—
6900 [3256]	612	2.05	649	2.22	685	2.43	719	2.69	753	2.99	786	3.33	827	3.42	858	3.67	887	3.93	914	4.18	940	4.43	965	4.68	987	4.94	1008	5.19	1028	5.43	1060	5.91	1083	6.23	—	—	—	—	—	—
7000 [3303]	619	2.13	655	2.31	691	2.53	725	2.80	758	3.11	791	3.46	832	3.51	862	3.77	891	4.03	919	4.28	944	4.54	968	4.80	991	5.05	1012	5.31	1041	5.75	1064	6.07	1087	6.40	—	—	—	—	—	—
7100 [3350]	625	2.21	661	2.40	697	2.64	731	2.91	764	3.23	796	3.60	837	3.60	867	3.86	896	4.13	923	4.39	948	4.65	972	4.91	995	5.17	1015	5.43	1045	5.90	1068	6.23	1091	6.56	—	—	—	—	—	—
7200 [3398]	632	2.30	668	2.50	703	2.74	736	3.03	769	3.36	801	3.74	841	3.69	872	3.96	900	4.23	927	4.50	952	4.76	976	5.03	998	5.29	1019	5.56	1049	6.05	1073	6.39	1095	6.74	—	—	—	—	—	—

NOTE: F-Drive left of bold line, G-Drive between the bold lines, H-Drive right of both bold lines.

Drive Package	F						G						H					
Motor H.P. [W]	3 [2,237.1]						5 [3,728.5]						5 [3,728.5]					
Blower Sheave	BK90H						BK95H						BK90H					
Motor Sheave	1VL44						1VP56						1VP56					
Turns Open	1	2	**3**	4	5	6	1	2	3	**4**	5	6	1	2	3	**4**	5	6
RPM	797	779	**747**	708	670	632	1,018	980	950	**915**	883	845	1,047	1,023	990	**958**	925	889

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure.
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.
5. An RPM meter must be used to receive an accurate airflow reading.

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE—15 TON — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]	Model RGEGYB180 Voltage 208/230, 460, 575 — 3 phase 60 Hz																																					
	External Static Pressure—Inches of Water [kPa]																																					
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4800 [2265]	—	—	—	—	—	—	—	—	667	1.55	705	1.70	741	1.86	775	2.04	806	2.24	833	2.49	860	2.73	886	2.93	912	3.11	937	3.25	962	3.36	986	3.44	1009	3.49	1031	3.50	1053	3.48	1074	3.43
4900 [2312]	—	—	—	—	—	—	—	—	672	1.58	710	1.74	745	1.91	778	2.09	809	2.30	837	2.57	864	2.81	890	3.02	916	3.19	941	3.33	966	3.44	990	3.52	1013	3.57	1035	3.58	1057	3.56	1078	3.51
5000 [2359]	—	—	—	—	—	—	—	—	677	1.62	714	1.78	749	1.96	782	2.15	812	2.36	841	2.66	868	2.90	895	3.10	920	3.28	945	3.42	970	3.52	994	3.60	1017	3.65	1039	3.66	1061	3.64	1082	3.59
5100 [2407]	—	—	—	—	—	—	643	1.50	682	1.66	718	1.83	753	2.01	785	2.21	815	2.43	845	2.75	872	2.99	899	3.19	924	3.36	950	3.50	974	3.61	998	3.68	1021	3.73	1043	3.74	1065	3.72	1086	3.67
5200 [2454]	—	—	—	—	—	—	648	1.54	687	1.70	723	1.88	757	2.07	789	2.28	819	2.50	850	2.84	877	3.07	903	3.28	929	3.45	954	3.58	978	3.69	1002	3.77	1025	3.81	1047	3.82	1069	3.80	1090	3.74
5300 [2501]	—	—	—	—	—	—	653	1.58	692	1.75	727	1.94	761	2.14	792	2.35	822	2.58	854	2.93	881	3.16	907	3.36	933	3.53	958	3.67	982	3.78	1006	3.85	1029	3.89	1052	3.90	1073	3.88	1094	3.82
5400 [2548]	—	—	—	—	—	—	659	1.63	697	1.81	732	2.00	765	2.20	796	2.42	825	2.66	858	3.02	885	3.25	911	3.45	937	3.62	962	3.76	987	3.86	1010	3.93	1033	3.97	1056	3.98	1077	3.96	1099	3.90
5500 [2595]	—	—	—	—	—	—	664	1.68	702	1.86	737	2.06	769	2.27	800	2.50	828	2.75	863	3.11	890	3.34	916	3.54	941	3.71	966	3.84	991	3.95	1015	4.02	1038	4.06	1060	4.06	1082	4.04	—	—
5600 [2643]	—	—	—	—	—	—	670	1.73	707	1.92	741	2.13	773	2.35	803	2.58	831	2.84	867	3.20	894	3.43	920	3.63	946	3.79	971	3.93	995	4.03	1019	4.10	1042	4.14	1064	4.15	1086	4.12	—	—
5700 [2690]	—	—	—	—	—	—	676	1.79	712	1.99	746	2.20	778	2.43	807	2.67	844	3.03	872	3.29	898	3.52	925	3.72	950	3.88	975	4.02	1000	4.12	1023	4.19	1046	4.23	1069	4.23	1090	4.20	—	—
5800 [2737]	—	—	—	—	643	1.67	681	1.85	717	2.06	750	2.28	782	2.51	811	2.76	849	3.12	876	3.38	903	3.61	929	3.81	955	3.97	980	4.10	1004	4.21	1028	4.27	1051	4.31	1073	4.31	1095	4.29	—	—
5900 [2784]	—	—	—	—	649	1.73	687	1.92	722	2.13	755	2.36	786	2.60	815	2.86	853	3.22	881	3.48	908	3.70	934	3.90	959	4.06	984	4.19	1009	4.29	1032	4.36	1055	4.40	1078	4.40	1099	4.37	—	—
6000 [2831]	—	—	—	—	655	1.79	692	1.99	727	2.21	760	2.44	790	2.69	818	2.95	858	3.31	885	3.57	912	3.80	938	3.99	964	4.15	989	4.28	1013	4.38	1037	4.45	1060	4.48	1082	4.49	—	—	—	—
6100 [2878]	—	—	—	—	661	1.86	698	2.07	732	2.29	765	2.53	794	2.79	822	3.06	863	3.41	890	3.66	917	3.89	943	4.08	969	4.24	994	4.37	1018	4.47	1041	4.54	1064	4.57	1087	4.57	—	—	—	—
6200 [2926]	—	—	—	—	668	1.93	704	2.14	738	2.38	769	2.62	799	2.88	826	3.16	867	3.50	895	3.76	922	3.98	948	4.18	973	4.34	998	4.46	1022	4.56	1046	4.63	1069	4.66	1091	4.66	—	—	—	—
6300 [2973]	—	—	—	—	674	2.00	709	2.23	743	2.47	774	2.72	803	2.99	830	3.27	872	3.60	900	3.85	926	4.08	953	4.27	978	4.43	1003	4.56	1027	4.65	1051	4.71	1074	4.75	1096	4.75	—	—	—	—
6400 [3020]	—	—	643	1.87	680	2.08	715	2.31	748	2.56	779	2.82	807	3.10	834	3.39	877	3.70	905	3.95	931	4.17	957	4.36	983	4.52	1008	4.65	1032	4.74	1056	4.80	1078	4.84	—	—	—	—	—	—
6500 [3067]	—	—	649	1.95	686	2.17	721	2.40	753	2.66	784	2.92	812	3.21	854	3.51	882	3.79	909	4.05	936	4.27	962	4.46	988	4.61	1013	4.74	1037	4.83	1060	4.90	1083	4.93	—	—	—	—	—	—
6600 [3114]	—	—	656	2.03	692	2.25	727	2.50	759	2.76	789	3.03	816	3.32	859	3.61	887	3.89	914	4.14	941	4.36	967	4.55	993	4.71	1018	4.83	1042	4.93	1065	4.99	1088	5.02	—	—	—	—	—	—
6700 [3162]	—	—	663	2.11	699	2.35	733	2.60	764	2.86	794	3.15	821	3.44	864	3.71	892	3.99	919	4.24	946	4.46	972	4.65	998	4.80	1022	4.93	1047	5.02	1070	5.08	1093	5.11	—	—	—	—	—	—
6800 [3209]	—	—	670	2.20	705	2.44	738	2.70	770	2.97	798	3.26	825	3.57	869	3.81	897	4.09	925	4.34	951	4.56	977	4.75	1003	4.90	1028	5.02	1052	5.11	1075	5.17	1098	5.20	—	—	—	—	—	—
6900 [3256]	639	2.06	676	2.29	711	2.54	744	2.81	775	3.09	803	3.38	830	3.70	874	3.91	902	4.19	930	4.44	956	4.66	982	4.84	1008	5.00	1033	5.12	1057	5.21	1080	5.26	—	—	—	—	—	—	—	—
7000 [3303]	646	2.15	683	2.39	718	2.65	750	2.92	780	3.21	808	3.51	851	3.70	879	4.01	907	4.29	935	4.54	962	4.76	988	4.94	1013	5.09	1038	5.21	1062	5.30	1085	5.36	—	—	—	—	—	—	—	—
7100 [3350]	654	2.24	690	2.49	724	2.75	756	3.03	786	3.33	813	3.64	856	3.80	885	4.11	913	4.39	940	4.64	967	4.86	993	5.04	1018	5.19	1043	5.31	1067	5.40	1090	5.45	—	—	—	—	—	—	—	—
7200 [3398]	661	2.34	697	2.60	731	2.87	762	3.15	791	3.45	818	3.77	861	3.91	890	4.22	918	4.49	945	4.74	972	4.96	998	5.14	1023	5.29	1048	5.41	1072	5.49	1096	5.55	—	—	—	—	—	—	—	—

NOTE: F-Drive left of bold line, G-Drive between the bold lines, H-Drive right of both bold lines.

Drive Package	F						G						H					
Motor H.P. [W]	3 [2,237.1]						5 [3,728.5]						5 [3,728.5]					
Blower Sheave	BK90H						BK95H						BK90H					
Motor Sheave	1VL44						1VP56						1VP56					
Turns Open	1	2	**3**	4	5	6	1	2	3	**4**	5	6	1	2	3	**4**	5	6
RPM	813	777	**745**	712	681	645	1,012	985	949	**912**	881	844	1,052	1,016	983	**952**	916	878

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure.
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.
5. An RPM meter must be used to receive an accurate airflow reading.

[ ] Designates Metric Conversions

COMPONENT AIRFLOW RESISTANCE—15 TON

CFM [L/s]	5600 [2643]	5800 [2737]	6000 [2831]	6200 [2926]	6400 [3020]	6600 [3114]	6800 [3209]	7000 [3303]	7200 [3398]	7400 [3492]	7600 [3586]	7800 [3681]	8000 [3775]	8200 [3869]	8400 [3964]
	Resistance — Inches of Water [kPa]														
Wet Coil	0.03 [0.01]	0.04 [0.01]	0.04 [0.01]	0.04 [0.01]	0.05 [0.01]	0.05 [0.01]	0.06 [0.01]	0.06 [.01]	0.06 [0.01]	0.07 [0.02]	0.07 [0.02]	0.08 [0.02]	0.08 [0.02]	0.08 [0.02]	0.09 [0.02]
Downflow Economizer RA Damper Open	0.21 [0.09]	0.22 [0.01]	0.23 [0.01]	0.24 [0.01]	0.25 [0.01]	0.26 [0.01]	0.26 [0.01]	0.27 [0.01]	0.28 [0.01]	0.29 [0.01]	0.30 [0.01]	0.31 [0.01]	0.32 [0.01]	0.33 [0.01]	0.33 [0.01]
Horizontal Economizer RA Damper Open	0.08 [0.03]	0.08 [0.03]	0.08 [0.03]	0.08 [0.03]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.10 [0.04]	0.10 [0.04]	0.10 [0.04]	0.10 [0.04]	0.10 [0.04]
MERV 8 Filter	0.091 [0.04]	0.095 [0.04]	0.099 [0.04]	0.103 [0.04]	0.107 [0.05]	0.111 [0.05]	0.116 [0.05]	0.120 [0.05]	0.124 [0.05]	0.128 [0.06]	0.132 [0.06]	0.136 [0.06]	0.140 [0.06]	0.144 [0.06]	0.148 [0.06]
MERV 13 Filter	0.044 [0.02]	0.051 [0.02]	0.057 [0.02]	0.063 [0.02]	0.070 [0.03]	0.076 [0.03]	0.082 [0.03]	0.089 [0.04]	0.095 [0.04]	0.101 [0.04]	0.107 [0.05]	0.114 [0.05]	0.120 [0.05]	0.126 [0.05]	0.133 [0.06]

AIRFLOW CORRECTION FACTORS—15 TON

CFM	4800	5000	5200	5400	5600	5800	6000	6200	6400	6600	6800	7000	7200
[L/s]	[2265]	[2359]	[2454]	[2548]	[2643]	[2737]	[2831]	[2926]	[3020]	[3114]	[3209]	[3303]	[3398]
Total MBH	0.97	0.98	0.98	0.99	0.99	1.00	1.00	1.01	1.02	1.02	1.03	1.03	1.04
Sensible MBH	0.89	0.91	0.93	0.95	0.97	0.99	1.01	1.03	1.05	1.07	1.09	1.11	1.13
Power kW	0.98	0.99	0.99	0.99	1.00	1.00	1.00	1.01	1.01	1.01	1.02	1.02	1.02

NOTE: Multiply correction factor times gross performance data - resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE—17.5 TON — 60 Hz — DOWNFLOW

Air Flow CFM [L/s]	Model RGEGYB210 Voltage 208/230, 460, 575 — 3 phase 60 Hz																																					
	External Static Pressure—Inches of Water [kPa]																																						
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5600 [2643]	—	—	—	—	614	1.68	654	1.87	692	2.06	729	2.26	764	2.45	798	2.64	830	2.83	860	3.02	889	3.21	916	3.40	941	3.59	965	3.78	987	3.96	1008	4.15	1026	4.34	1083	4.42	1105	4.62	1126	4.82
5700 [2690]	—	—	—	—	619	1.72	659	1.92	698	2.12	734	2.32	769	2.51	803	2.71	834	2.91	864	3.10	893	3.29	920	3.49	945	3.68	968	3.87	990	4.07	1010	4.26	1029	4.45	1087	4.52	1108	4.73	1129	4.93
5800 [2737]	—	—	—	—	625	1.76	665	1.97	703	2.17	739	2.38	774	2.58	807	2.78	839	2.98	868	3.18	897	3.38	923	3.58	948	3.77	972	3.97	993	4.17	1013	4.36	1068	4.42	1090	4.63	1112	4.84	1132	5.05
5900 [2784]	—	—	—	—	631	1.81	670	2.02	708	2.23	744	2.44	779	2.64	812	2.85	843	3.06	873	3.26	901	3.46	927	3.67	952	3.87	975	4.07	996	4.27	1016	4.47	1071	4.53	1094	4.75	1115	4.96	1135	5.17
6000 [2831]	—	—	—	—	636	1.86	676	2.08	713	2.29	749	2.50	784	2.71	816	2.92	847	3.13	877	3.34	905	3.55	931	3.76	955	3.97	978	4.17	999	4.38	1019	4.59	1075	4.65	1097	4.86	1118	5.08	1139	5.29
6100 [2878]	—	—	—	—	642	1.91	681	2.13	718	2.35	754	2.57	788	2.78	821	3.00	852	3.21	881	3.43	909	3.64	934	3.86	959	4.07	982	4.28	1003	4.49	1022	4.70	1079	4.76	1101	4.98	1122	5.20	1142	5.42
6200 [2926]	—	—	607	1.74	648	1.97	686	2.19	724	2.41	759	2.63	793	2.86	825	3.08	856	3.30	885	3.52	912	3.73	938	3.95	962	4.17	985	4.39	1006	4.60	1025	4.82	1083	4.88	1104	5.10	1125	5.33	1145	5.55
6300 [2973]	—	—	613	1.79	653	2.02	692	2.25	729	2.48	764	2.70	798	2.93	830	3.16	860	3.38	889	3.60	916	3.83	942	4.05	966	4.27	988	4.49	1009	4.71	1028	4.93	1086	5.00	1108	5.23	1129	5.46	1149	5.68
6400 [3020]	—	—	619	1.85	659	2.08	697	2.31	734	2.54	769	2.78	803	3.01	835	3.24	865	3.47	893	3.70	920	3.92	946	4.15	969	4.38	992	4.60	1012	4.83	1068	4.90	1090	5.13	1112	5.36	1133	5.59	—	—
6500 [3067]	—	—	625	1.90	665	2.14	703	2.38	739	2.61	774	2.85	808	3.09	839	3.32	869	3.56	898	3.79	924	4.02	950	4.25	973	4.49	995	4.72	1015	4.95	1072	5.02	1094	5.26	1116	5.49	1136	5.72	—	—
6600 [3114]	—	—	631	1.96	670	2.20	708	2.44	745	2.68	779	2.93	812	3.17	844	3.41	874	3.65	902	3.88	928	4.12	953	4.36	977	4.60	998	4.83	1018	5.07	1076	5.15	1098	5.39	1120	5.62	1140	5.86	—	—
6700 [3162]	—	—	636	2.01	676	2.26	714	2.51	750	2.76	784	3.00	817	3.25	848	3.49	878	3.74	906	3.98	932	4.22	957	4.47	980	4.71	1002	4.95	1021	5.19	1080	5.28	1102	5.52	1124	5.76	1144	6.00	—	—
6800 [3209]	—	—	642	2.08	682	2.33	719	2.58	755	2.83	789	3.08	822	3.33	853	3.58	882	3.83	910	4.08	936	4.33	961	4.57	984	4.82	1005	5.07	1025	5.31	1085	5.41	1107	5.66	1128	5.90	1148	6.15	—	—
6900 [3256]	608	1.88	648	2.14	687	2.40	725	2.65	760	2.91	794	3.16	827	3.42	858	3.67	887	3.93	914	4.18	940	4.43	965	4.68	987	4.94	1008	5.19	1028	5.43	1089	5.55	1111	5.80	1132	6.05	—	—	—	—
7000 [3303]	614	1.94	654	2.20	693	2.46	730	2.73	766	2.99	799	3.25	832	3.51	862	3.77	891	4.03	919	4.28	944	4.54	968	4.80	991	5.05	1012	5.31	1071	5.43	1093	5.69	1115	5.94	1136	6.19	—	—	—	—
7100 [3350]	620	2.00	660	2.27	699	2.54	736	2.80	771	3.07	805	3.33	837	3.60	867	3.86	896	4.13	923	4.39	948	4.65	972	4.91	995	5.17	1015	5.43	1075	5.57	1098	5.83	1119	6.09	1140	6.34	—	—	—	—
7200 [3398]	626	2.06	666	2.34	704	2.61	741	2.88	776	3.15	810	3.42	841	3.69	872	3.96	900	4.23	927	4.50	952	4.76	976	5.03	998	5.29	1019	5.56	1080	5.72	1102	5.98	1124	6.24	1144	6.49	—	—	—	—
7300 [3445]	632	2.13	672	2.41	710	2.68	747	2.96	781	3.24	815	3.51	846	3.79	876	4.06	905	4.33	931	4.60	956	4.88	980	5.15	1002	5.42	1022	5.69	1085	5.86	1107	6.13	1128	6.39	1149	6.65	—	—	—	—
7400 [3492]	638	2.20	678	2.48	716	2.76	752	3.04	787	3.32	820	3.60	851	3.88	881	4.16	909	4.44	936	4.72	961	4.99	984	5.27	1005	5.54	1025	5.82	1089	6.01	1112	6.28	1133	6.54	—	—	—	—	—	—
7500 [3539]	644	2.27	684	2.55	721	2.84	758	3.13	792	3.41	825	3.70	856	3.98	886	4.26	914	4.55	940	4.83	965	5.11	988	5.39	1009	5.67	1029	5.95	1094	6.16	1116	6.43	1137	6.70	—	—	—	—	—	—
7600 [3586]	651	2.34	690	2.63	727	2.92	763	3.21	797	3.50	830	3.79	861	4.08	890	4.37	918	4.66	944	4.94	969	5.23	991	5.51	1013	5.80	1076	6.04	1099	6.31	1121	6.59	1142	6.86	—	—	—	—	—	—
7700 [3633]	657	2.41	696	2.71	733	3.00	769	3.30	803	3.60	835	3.89	866	4.18	895	4.48	923	4.77	948	5.06	973	5.35	995	5.64	1016	5.93	1081	6.19	1104	6.47	1126	6.75	1147	7.03	—	—	—	—	—	—
7800 [3681]	663	2.49	702	2.79	739	3.09	774	3.39	808	3.69	840	3.99	871	4.29	900	4.59	927	4.88	953	5.18	977	5.47	999	5.77	1020	6.06	1087	6.35	1109	6.63	1131	6.91	—	—	—	—	—	—	—	—
7900 [3728]	669	2.56	708	2.87	744	3.18	780	3.48	813	3.79	845	4.09	876	4.39	904	4.70	932	5.00	957	5.30	981	5.60	1003	5.90	1024	6.20	1092	6.51	1114	6.80	1136	7.08	—	—	—	—	—	—	—	—
8000 [3775]	675	2.64	714	2.95	750	3.27	785	3.58	819	3.89	850	4.19	881	4.50	909	4.81	936	5.12	961	5.42	985	5.73	1007	6.03	1027	6.34	1097	6.67	1119	6.96	1141	7.25	—	—	—	—	—	—	—	—
8100 [3822]	681	2.72	720	3.04	756	3.36	791	3.67	824	3.99	856	4.30	886	4.61	914	4.92	941	5.24	966	5.55	989	5.86	1011	6.17	1079	6.54	1102	6.84	1124	7.13	1146	7.42	—	—	—	—	—	—	—	—
8200 [3869]	688	2.81	726	3.13	762	3.45	796	3.77	829	4.09	861	4.41	890	4.72	919	5.04	945	5.36	970	5.67	993	5.99	1015	6.30	1085	6.71	1108	7.01	1130	7.30	—	—	—	—	—	—	—	—	—	—
8300 [3917]	694	2.89	731	3.22	768	3.54	802	3.87	835	4.19	866	4.52	895	4.84	923	5.16	950	5.48	974	5.80	997	6.12	1019	6.44	1090	6.88	1113	7.18	1135	7.48	—	—	—	—	—	—	—	—	—	—
8400 [3964]	700	2.98	737	3.31	773	3.64	808	3.97	840	4.30	871	4.63	900	4.96	928	5.28	954	5.61	979	5.93	1001	6.26	1022	6.58	1096	7.05	1119	7.35	1140	7.66	—	—	—	—	—	—	—	—	—	—

NOTE: F-Drive left of bold line, G-Drive between the bold lines, H-Drive right of both bold lines.

Drive Package	F						G						H					
Motor H.P. [W]	3 [2,237.1]						5 [3,728.5]						7.5 [5,592.7]					
Blower Sheave	BK90H						BK95H						BK100H					
Motor Sheave	1VL44						1VP56						1VP65					
Turns Open	1	2	**3**	4	5	6	1	2	3	**4**	5	6	1	2	3	**4**	5	6
RPM	797	779	**747**	708	670	632	1,018	980	950	**915**	883	845	1,107	1,069	1,037	**1,001**	968	932

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure.
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.
5. An RPM meter must be used to receive an accurate airflow reading.

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE—17.5 TON — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]	Model RGEGYB210 Voltage 208/230, 460, 575 — 3 phase 60 Hz																																					
	External Static Pressure—Inches of Water [kPa]																																					
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5600 [2643]	—	—	—	—	—	—	670	1.73	707	1.92	741	2.13	773	2.35	803	2.58	831	2.84	867	3.20	894	3.43	920	3.63	946	3.79	971	3.93	995	4.03	1019	4.10	1041	4.00	1063	4.16	1086	4.32	1108	4.48
5700 [2690]	—	—	—	—	637	1.61	676	1.79	712	1.99	746	2.20	778	2.43	807	2.67	834	2.93	872	3.29	898	3.52	925	3.72	950	3.88	975	4.02	1000	4.12	1023	4.19	1045	4.11	1068	4.28	1090	4.44	1112	4.61
5800 [2737]	—	—	—	—	643	1.67	681	1.85	717	2.06	750	2.28	782	2.51	811	2.76	849	3.12	876	3.38	903	3.61	929	3.81	955	3.97	980	4.10	1004	4.21	1026	4.05	1049	4.22	1072	4.40	1095	4.57	1117	4.75
5900 [2784]	—	—	—	—	649	1.73	687	1.92	722	2.13	755	2.36	786	2.60	815	2.86	853	3.22	881	3.48	908	3.70	934	3.90	959	4.06	984	4.19	1009	4.29	1031	4.16	1054	4.34	1077	4.52	1099	4.71	1122	4.89
6000 [2831]	—	—	—	—	655	1.79	692	1.99	727	2.21	760	2.44	790	2.69	818	2.95	858	3.31	885	3.57	912	3.80	938	3.99	964	4.15	989	4.28	1013	4.38	1035	4.28	1058	4.47	1081	4.65	1104	4.84	1126	5.04
6100 [2878]	—	—	—	—	661	1.86	698	2.07	732	2.29	765	2.53	794	2.79	822	3.06	863	3.41	890	3.66	917	3.89	943	4.08	969	4.24	994	4.37	1018	4.47	1040	4.40	1063	4.59	1086	4.79	1109	4.99	1131	5.19
6200 [2926]	—	—	—	—	668	1.93	704	2.14	738	2.38	769	2.62	799	2.88	826	3.16	867	3.50	895	3.76	922	3.98	948	4.18	973	4.34	998	4.46	1022	4.56	1044	4.52	1068	4.72	1091	4.93	1114	5.13	1136	5.34
6300 [2973]	—	—	636	1.80	674	2.00	709	2.23	743	2.47	774	2.72	803	2.99	830	3.27	872	3.60	900	3.85	926	4.08	953	4.27	978	4.43	1003	4.56	1025	4.44	1049	4.65	1073	4.86	1096	5.07	1118	5.28	1141	5.49
6400 [3020]	—	—	643	1.87	680	2.08	715	2.31	748	2.56	779	2.82	807	3.10	834	3.39	877	3.70	905	3.95	931	4.17	957	4.36	983	4.52	1008	4.65	1030	4.56	1054	4.78	1077	4.99	1101	5.21	1123	5.43	1146	5.66
6500 [3067]	—	—	649	1.95	686	2.17	721	2.40	753	2.66	784	2.92	812	3.21	854	3.51	882	3.79	909	4.05	936	4.27	962	4.46	988	4.61	1013	4.74	1035	4.69	1059	4.91	1082	5.14	1106	5.36	1128	5.59	—	—
6600 [3114]	—	—	656	2.03	692	2.25	727	2.50	759	2.76	789	3.03	816	3.32	859	3.61	887	3.89	914	4.14	941	4.36	967	4.55	993	4.71	1018	4.83	1040	4.82	1064	5.05	1087	5.28	1111	5.52	1134	5.75	—	—
6700 [3162]	—	—	663	2.11	699	2.35	733	2.60	764	2.86	794	3.15	821	3.44	864	3.71	892	3.99	919	4.24	946	4.46	972	4.65	998	4.80	1022	4.93	1045	4.95	1069	5.19	1093	5.43	1116	5.67	1139	5.92	—	—
6800 [3209]	—	—	670	2.20	705	2.44	738	2.70	770	2.97	798	3.26	825	3.57	869	3.81	897	4.09	925	4.34	951	4.56	977	4.75	1003	4.90	1026	4.84	1050	5.09	1074	5.34	1098	5.58	1121	5.83	1144	6.08	—	—
6900 [3256]	639	2.06	676	2.29	711	2.54	744	2.81	775	3.09	803	3.38	830	3.70	874	3.91	902	4.19	930	4.44	956	4.66	982	4.84	1008	5.00	1031	4.98	1055	5.23	1079	5.49	1103	5.74	1126	6.00	1149	6.26	—	—
7000 [3303]	646	2.15	683	2.39	718	2.65	750	2.92	780	3.21	808	3.51	834	3.83	879	4.01	907	4.29	935	4.54	962	4.76	988	4.94	1013	5.09	1036	5.12	1061	5.38	1085	5.64	1108	5.90	1132	6.17	—	—	—	—
7100 [3350]	654	2.24	690	2.49	724	2.75	756	3.03	786	3.33	813	3.64	856	3.80	885	4.11	913	4.39	940	4.64	967	4.86	993	5.04	1018	5.19	1042	5.26	1066	5.53	1090	5.80	1114	6.07	1137	6.34	—	—	—	—
7200 [3398]	661	2.34	697	2.60	731	2.87	762	3.15	791	3.45	818	3.77	861	3.91	890	4.22	918	4.49	945	4.74	972	4.96	998	5.14	1023	5.29	1047	5.40	1071	5.68	1096	5.96	1119	6.23	1143	6.51	—	—	—	—
7300 [3445]	668	2.44	704	2.71	737	2.98	768	3.28	797	3.59	824	3.91	867	4.01	895	4.32	923	4.60	951	4.84	977	5.06	1003	5.24	1028	5.27	1053	5.55	1077	5.84	1101	6.12	1125	6.41	1148	6.69	—	—	—	—
7400 [3492]	676	2.55	711	2.82	744	3.10	774	3.40	803	3.72	829	4.05	872	4.12	901	4.42	929	4.70	956	4.95	983	5.16	1009	5.34	1033	5.42	1058	5.71	1083	6.00	1107	6.29	1131	6.58	—	—	—	—	—	—
7500 [3539]	683	2.66	718	2.94	750	3.23	780	3.54	808	3.86	834	4.20	878	4.22	906	4.53	934	4.81	962	5.05	988	5.26	1014	5.44	1039	5.57	1064	5.86	1088	6.16	1112	6.46	1136	6.76	—	—	—	—	—	—
7600 [3586]	691	2.77	725	3.06	757	3.36	786	3.67	814	4.00	854	3.99	883	4.33	912	4.64	940	4.91	967	5.15	994	5.36	1020	5.54	1045	5.72	1069	6.03	1094	6.33	1118	6.64	1142	6.95	—	—	—	—	—	—
7700 [3633]	698	2.89	732	3.18	763	3.49	792	3.81	819	4.15	860	4.10	889	4.44	917	4.74	945	5.02	973	5.26	999	5.47	1025	5.57	1050	5.88	1075	6.19	1100	6.50	1124	6.82	1148	7.14	—	—	—	—	—	—
7800 [3681]	706	3.02	739	3.31	770	3.63	799	3.95	825	4.30	865	4.21	895	4.54	923	4.85	951	5.12	978	5.36	1005	5.57	1031	5.72	1056	6.04	1081	6.36	1106	6.68	1130	7.00	—	—	—	—	—	—	—	—
7900 [3728]	713	3.14	746	3.45	777	3.77	805	4.10	831	4.45	871	4.32	900	4.65	929	4.96	957	5.23	984	5.47	1010	5.67	1037	5.88	1062	6.21	1087	6.53	1112	6.86	1136	7.19	—	—	—	—	—	—	—	—
8000 [3775]	721	3.27	753	3.58	783	3.91	811	4.25	847	4.06	877	4.43	906	4.76	935	5.06	962	5.33	990	5.57	1016	5.78	1043	6.04	1068	6.37	1093	6.71	1118	7.05	1142	7.38	—	—	—	—	—	—	—	—
8100 [3822]	729	3.41	760	3.73	790	4.06	817	4.41	853	4.17	883	4.54	912	4.87	940	5.17	968	5.44	995	5.68	1022	5.89	1049	6.21	1074	6.55	1099	6.89	1124	7.23	1148	7.58	—	—	—	—	—	—	—	—
8200 [3869]	736	3.55	768	3.87	797	4.21	823	4.57	859	4.29	889	4.65	918	4.98	946	5.28	974	5.55	1001	5.79	1029	6.03	1055	6.38	1080	6.72	1105	7.07	1130	7.43	—	—	—	—	—	—	—	—	—	—
8300 [3917]	744	3.69	775	4.02	803	4.37	830	4.73	865	4.40	895	4.76	924	5.09	952	5.39	980	5.66	1007	5.90	1035	6.19	1061	6.55	1086	6.91	1112	7.26	1137	7.62	—	—	—	—	—	—	—	—	—	—
8400 [3964]	752	3.84	782	4.18	810	4.53	841	4.12	871	4.51	901	4.87	930	5.21	958	5.50	986	5.77	1013	6.00	1041	6.36	1067	6.73	1093	7.09	1118	7.45	1143	7.82	—	—	—	—	—	—	—	—	—	—

NOTE: F-Drive left of bold line, G-Drive between the bold lines, H-Drive right of both bold lines.

Drive Package	F						G						H					
Motor H.P. [W]	3 [2,237.1]						5 [3,728.5]						7.5 [5,592.7]					
Blower Sheave	BK90H						BK95H						BK100H					
Motor Sheave	1VL44						1VP56						1VP65					
Turns Open	1	2	**3**	4	5	6	1	2	3	**4**	5	6	1	2	3	**4**	5	6
RPM	813	777	**745**	712	681	645	1,012	985	949	**912**	881	844	1,108	1,072	1,038	**1,003**	968	932

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure.
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.
5. An RPM meter must be used to receive an accurate airflow reading.

[ ] Designates Metric Conversions

COMPONENT AIRFLOW RESISTANCE— 17.5 TON

CFM [L/s]	5600 [2643]	5800 [2737]	6000 [2831]	6200 [2926]	6400 [3020]	6600 [3114]	6800 [3209]	7000 [3303]	7200 [3398]	7400 [3492]	7600 [3586]	7800 [3681]	8000 [3775]	8200 [3869]	8400 [3964]
	Resistance — Inches of Water [kPa]														
Wet Coil	0.03 [0.01]	0.04 [0.01]	0.04 [0.01]	0.04 [0.01]	0.05 [0.01]	0.05 [0.01]	0.06 [0.01]	0.06 [.01]	0.06 [0.01]	0.07 [0.02]	0.07 [0.02]	0.08 [0.02]	0.08 [0.02]	0.08 [0.02]	0.09 [0.02]
Downflow Economizer RA Damper Open	0.21 [0.09]	0.22 [0.01]	0.23 [0.01]	0.24 [0.01]	0.25 [0.01]	0.26 [0.01]	0.26 [0.01]	0.27 [0.01]	0.28 [0.01]	0.29 [0.01]	0.30 [0.01]	0.31 [0.01]	0.32 [0.01]	0.33 [0.01]	0.33 [0.01]
Horizontal Economizer RA Damper Open	0.08 [0.03]	0.08 [0.03]	0.08 [0.03]	0.08 [0.03]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.10 [0.04]	0.10 [0.04]	0.10 [0.04]	0.10 [0.04]	0.10 [0.04]
MERV 8 Filter	0.091 [0.04]	0.095 [0.04]	0.099 [0.04]	0.103 [0.04]	0.107 [0.05]	0.111 [0.05]	0.116 [0.05]	0.120 [0.05]	0.124 [0.05]	0.128 [0.06]	0.132 [0.06]	0.136 [0.06]	0.140 [0.06]	0.144 [0.06]	0.148 [0.06]
MERV 13 Filter	0.044 [0.02]	0.051 [0.02]	0.057 [0.02]	0.063 [0.02]	0.070 [0.03]	0.076 [0.03]	0.082 [0.03]	0.089 [0.04]	0.095 [0.04]	0.101 [0.04]	0.107 [0.05]	0.114 [0.05]	0.120 [0.05]	0.126 [0.05]	0.133 [0.06]

AIRFLOW CORRECTION FACTORS— 17.5 TON

CFM	5600	5800	6000	6200	6400	6600	6800	7000	7200	7400	7600	7800	8000	8200	8400
[L/s]	[2643]	[2737]	[2831]	[2926]	[3020]	[3114]	[3209]	[3303]	[3398]	[3492]	[3586]	[3681]	[3775]	[3869]	[3964]
Total kBtu/h	0.97	0.97	0.98	0.98	0.99	0.99	1.00	1.00	1.01	1.01	1.02	1.02	1.03	1.03	1.04
Sensible kBtu/h	0.87	0.89	0.91	0.93	0.95	0.97	0.99	1.01	1.03	1.05	1.07	1.09	1.11	1.13	1.15
Power kW	0.98	0.99	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.01	1.01	1.01	1.01	1.02	1.02

NOTE: Multiply correction factor times gross performance data - resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE—20 TON — 60 Hz — DOWNFLOW

Air Flow CFM [L/s]	Model RGEGYB240 Voltage 208/230, 460, 575 — 3 phase 60 Hz																																					
	External Static Pressure—Inches of Water [kPa]																																					
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6400 [3020]	—	—	—	—	—	—	—	—	749	2.50	787	2.74	823	2.99	857	3.25	888	3.52	918	3.79	947	4.06	977	4.30	1006	4.56	1034	4.83	1047	4.82	1071	5.07	1094	5.32	1115	5.56	1135	5.80	1154	6.04
6500 [3067]	—	—	—	—	—	—	—	—	756	2.58	793	2.82	828	3.08	861	3.34	892	3.60	921	3.88	951	4.16	981	4.40	1010	4.67	1038	4.95	1051	4.93	1075	5.18	1097	5.43	1118	5.68	1138	5.92	—	—
6600 [3114]	—	—	—	—	—	—	—	—	762	2.66	799	2.91	833	3.16	866	3.43	896	3.69	925	3.97	956	4.25	985	4.51	1014	4.79	1041	5.08	1055	5.04	1079	5.30	1101	5.55	1121	5.80	1141	6.05	—	—
6700 [3162]	—	—	—	—	—	—	730	2.50	768	2.75	805	3.00	839	3.25	870	3.52	900	3.79	928	4.06	960	4.36	989	4.62	1017	4.90	1045	5.21	1059	5.16	1082	5.42	1104	5.67	1124	5.92	1143	6.17	—	—
6800 [3209]	—	—	—	—	—	—	737	2.59	775	2.83	810	3.09	844	3.35	875	3.61	904	3.88	934	4.20	964	4.46	993	4.74	1021	5.03	1048	5.34	1063	5.28	1086	5.54	1107	5.80	1127	6.05	1146	6.30	—	—
6900 [3256]	—	—	—	—	—	—	744	2.68	781	2.93	816	3.18	849	3.44	879	3.71	908	3.98	939	4.31	969	4.57	997	4.86	1025	5.16	1052	5.48	1067	5.40	1090	5.66	1111	5.92	1130	6.17	1148	6.42	—	—
7000 [3303]	—	—	—	—	—	—	751	2.77	787	3.02	822	3.28	854	3.54	884	3.81	912	4.08	944	4.41	973	4.69	1001	4.98	1029	5.29	1047	5.26	1071	5.52	1093	5.79	1114	6.05	1133	6.30	1151	6.55	—	—
7100 [3350]	—	—	—	—	—	—	758	2.87	794	3.12	827	3.37	859	3.64	888	3.91	916	4.18	948	4.53	977	4.81	1006	5.11	1033	5.43	1052	5.38	1075	5.65	1097	5.91	1117	6.18	1136	6.43	1153	6.69	—	—
7200 [3398]	—	—	—	—	—	—	765	2.96	800	3.22	833	3.48	864	3.74	893	4.01	920	4.29	953	4.64	982	4.93	1010	5.24	1037	5.57	1056	5.50	1079	5.78	1100	6.04	1120	6.31	1139	6.57	—	—	—	—
7300 [3445]	—	—	—	—	735	2.81	772	3.06	806	3.32	839	3.58	869	3.85	897	4.12	923	4.40	958	4.76	986	5.06	1014	5.38	1040	5.72	1060	5.63	1082	5.91	1104	6.17	1123	6.44	1141	6.70	—	—	—	—
7400 [3492]	—	—	—	—	743	2.92	779	3.17	813	3.42	844	3.69	874	3.96	902	4.23	927	4.51	962	4.89	991	5.20	1018	5.52	1044	5.87	1064	5.76	1086	6.04	1107	6.31	1126	6.57	1144	6.84	—	—	—	—
7500 [3539]	—	—	—	—	750	3.02	785	3.27	819	3.53	850	3.80	879	4.07	906	4.34	938	4.72	967	5.02	995	5.33	1022	5.67	1048	6.02	1068	5.89	1090	6.17	1110	6.44	1129	6.71	1147	6.98	—	—	—	—
7600 [3586]	—	—	—	—	757	3.13	792	3.38	825	3.64	856	3.91	884	4.18	910	4.46	943	4.84	972	5.15	999	5.48	1026	5.82	1052	6.18	1072	6.03	1094	6.31	1114	6.58	1132	6.85	1149	7.12	—	—	—	—
7700 [3633]	—	—	—	—	765	3.24	799	3.49	831	3.75	861	4.02	889	4.30	915	4.58	948	4.97	976	5.29	1004	5.62	1031	5.98	1053	5.88	1076	6.16	1097	6.44	1117	6.72	1135	6.99	1152	7.26	—	—	—	—
7800 [3681]	—	—	737	3.10	772	3.35	806	3.61	837	3.87	867	4.14	894	4.42	919	4.70	953	5.10	981	5.43	1008	5.77	1035	6.14	1058	6.01	1080	6.30	1101	6.58	1120	6.86	1138	7.13	1155	7.40	—	—	—	—
7900 [3728]	—	—	745	3.21	780	3.46	813	3.72	844	3.99	872	4.26	899	4.54	924	4.82	958	5.24	986	5.58	1013	5.93	1039	6.30	1062	6.15	1084	6.44	1104	6.72	1123	7.00	1141	7.28	—	—	—	—	—	—
8000 [3775]	—	—	753	3.33	787	3.58	819	3.84	850	4.11	878	4.38	904	4.66	928	4.95	963	5.39	991	5.73	1018	6.09	1043	6.47	1066	6.29	1088	6.58	1108	6.87	1127	7.15	1144	7.43	—	—	—	—	—	—
8100 [3822]	—	—	761	3.44	794	3.70	826	3.96	856	4.23	883	4.51	909	4.79	939	5.20	968	5.53	996	5.89	1022	6.26	1048	6.64	1070	6.43	1092	6.72	1111	7.01	1130	7.30	1147	7.57	—	—	—	—	—	—
8200 [3869]	733	3.31	768	3.57	802	3.82	833	4.09	862	4.36	889	4.64	914	4.92	945	5.34	973	5.68	1000	6.05	1027	6.42	1052	6.82	1074	6.58	1095	6.87	1115	7.16	1133	7.44	1149	7.73	—	—	—	—	—	—
8300 [3917]	742	3.44	776	3.69	809	3.95	840	4.22	868	4.49	894	4.77	919	5.05	950	5.49	978	5.84	1005	6.21	1031	6.60	1056	6.42	1078	6.72	1099	7.02	1118	7.31	1136	7.60	1152	7.88	—	—	—	—	—	—
8400 [3964]	750	3.56	784	3.82	816	4.08	846	4.35	874	4.62	900	4.90	923	5.19	956	5.64	983	6.00	1010	6.38	1036	6.78	1061	6.57	1082	6.87	1103	7.17	1122	7.46	1139	7.75	1155	8.03	—	—	—	—	—	—
8500 [4011]	759	3.69	792	3.95	824	4.21	853	4.48	880	4.76	905	5.04	928	5.33	961	5.80	988	6.17	1015	6.55	1040	6.96	1065	6.72	1087	7.02	1106	7.32	1125	7.61	1142	7.90	—	—	—	—	—	—	—	—
8600 [4058]	767	3.82	800	4.08	831	4.34	860	4.62	886	4.89	911	5.18	938	5.60	966	5.96	994	6.34	1020	6.73	1045	7.15	1069	6.87	1090	7.17	1110	7.47	1128	7.77	1145	8.06	—	—	—	—	—	—	—	—
8700 [4105]	776	3.95	808	4.21	838	4.48	866	4.75	892	5.03	916	5.32	944	5.76	972	6.12	999	6.51	1025	6.92	1050	7.34	1074	7.02	1094	7.33	1114	7.63	1132	7.93	1148	8.22	—	—	—	—	—	—	—	—
8800 [4153]	784	4.09	816	4.35	846	4.62	873	4.89	898	5.18	922	5.46	950	5.92	977	6.29	1004	6.69	1030	7.10	1054	7.53	1078	7.17	1098	7.48	1117	7.79	1135	8.09	1151	8.38	—	—	—	—	—	—	—	—
8900 [4200]	793	4.23	824	4.49	853	4.76	880	5.04	904	5.32	927	5.61	955	6.08	983	6.47	1009	6.87	1035	7.30	1061	7.01	1082	7.33	1102	7.64	1121	7.95	1138	8.25	1154	8.55	—	—	—	—	—	—	—	—
9000 [4247]	801	4.37	832	4.63	860	4.91	886	5.19	910	5.47	933	5.87	961	6.25	988	6.65	1014	7.06	1040	7.49	1065	7.17	1086	7.49	1106	7.80	1124	8.11	1141	8.41	—	—	—	—	—	—	—	—	—	—
9100 [4294]	809	4.51	839	4.78	867	5.05	893	5.33	916	5.62	939	6.04	967	6.43	994	6.83	1020	7.25	1045	7.69	1070	7.33	1091	7.65	1110	7.96	1128	8.27	1144	8.58	—	—	—	—	—	—	—	—	—	—
9200 [4341]	818	4.66	847	4.93	874	5.20	899	5.49	922	5.78	945	6.21	973	6.61	999	7.02	1025	7.45	1050	7.90	1074	7.49	1095	7.81	1114	8.13	1131	8.44	1147	8.75	—	—	—	—	—	—	—	—	—	—
9300 [4388]	826	4.81	855	5.08	881	5.36	906	5.64	928	5.93	951	6.39	979	6.79	1005	7.21	1030	7.65	1055	8.11	1079	7.65	1099	7.98	1117	8.29	1135	8.61	1150	8.92	—	—	—	—	—	—	—	—	—	—
9400 [4436]	835	4.96	863	5.23	889	5.51	912	5.80	929	6.17	957	6.57	984	6.98	1011	7.41	1036	7.86	1062	7.49	1083	7.82	1103	8.14	1121	8.46	1138	8.78	1153	9.09	—	—	—	—	—	—	—	—	—	—
9500 [4483]	843	5.11	870	5.39	896	5.67	919	5.96	936	6.35	963	6.75	990	7.17	1016	7.61	1041	8.07	1066	7.65	1087	7.99	1107	8.31	1125	8.63	1141	8.95	—	—	—	—	—	—	—	—	—	—	—	—
9600 [4530]	851	5.27	878	5.55	903	5.83	925	6.12	942	6.53	970	6.94	996	7.37	1022	7.82	1046	8.28	1071	7.82	1092	8.15	1111	8.48	1128	8.81	1145	9.12	—	—	—	—	—	—	—	—	—	—	—	—

NOTE: F-Drive left of bold line, G-Drive between the bold lines, H-Drive right of both bold lines

Drive Package	F						G						H					
Motor H.P. [W]	5 [3,728.5]						5 [3,728.5]						7.5 [5,592.7]					
Blower Sheave	BK105						BK90						BK105					
Motor Sheave	1VP-56						1VP-56						1VP71					
Turns Open	1	2	**3**	4	5	6	1	2	3	**4**	5	6	1	2	3	**4**	5	6
RPM	917	884	**854**	822	792	761	1,032	1,013	976	**943**	909	875	1,146	1,110	1,081	**1,045**	1,018	978

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.
5. An RPM meter must be used to receive an accurate airflow reading.

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE—20 TON — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]	Model RGEGYB240 Voltage 208/230, 460, 575 — 3 phase 60 Hz																																			
	External Static Pressure—Inches of Water [kPa]																																			
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6400 [3020]	—	—	—	—	—	—	—	—	759	2.58	793	2.79	826	3.02	857	3.24	888	3.48	917	3.72	956	4.32	980	4.53	1003	4.74	1026	4.95	1049	5.16	1073	5.14	1094	5.39	1115	5.65	1136	5.92	—	—
6500 [3067]	—	—	—	—	—	—	—	—	765	2.64	798	2.86	831	3.08	862	3.32	892	3.55	921	3.80	959	4.39	983	4.60	1007	4.82	1030	5.04	1052	5.26	1077	5.26	1098	5.51	1119	5.78	1139	6.06	—	—
6600 [3114]	—	—	—	—	—	—	736	2.48	770	2.70	803	2.93	836	3.16	867	3.39	896	3.64	925	3.88	963	4.46	986	4.68	1010	4.91	1033	5.13	1055	5.35	1081	5.38	1102	5.63	1123	5.91	1143	6.20	—	—
6700 [3162]	—	—	—	—	—	—	742	2.54	776	2.77	809	3.00	841	3.23	871	3.48	901	3.72	929	3.98	966	4.54	990	4.77	1013	5.00	1036	5.23	1059	5.46	1084	5.50	1106	5.76	1126	6.04	1146	6.34	—	—
6800 [3209]	—	—	—	—	—	—	748	2.61	781	2.84	814	3.08	846	3.32	876	3.56	905	3.81	945	4.40	970	4.63	993	4.86	1017	5.10	1040	5.33	1062	5.56	1088	5.62	1110	5.90	1130	6.18	1150	6.48	—	—
6900 [3256]	—	—	—	—	—	—	754	2.69	787	2.92	819	3.16	850	3.40	880	3.65	909	3.91	949	4.48	973	4.72	997	4.96	1020	5.20	1043	5.44	1065	5.68	1092	5.75	1113	6.03	1134	6.32	1153	6.63	—	—
7000 [3303]	—	—	—	—	—	—	760	2.76	793	3.00	825	3.25	856	3.50	885	3.75	913	4.01	953	4.57	977	4.82	1001	5.06	1024	5.30	1047	5.55	1069	5.79	1096	5.88	1117	6.17	1137	6.47	—	—	—	—
7100 [3350]	—	—	—	—	732	2.61	766	2.85	799	3.09	830	3.34	861	3.59	890	3.85	918	4.12	957	4.67	981	4.92	1005	5.17	1028	5.42	1050	5.67	1079	5.74	1100	6.02	1121	6.31	1141	6.62	—	—	—	—
7200 [3398]	—	—	—	—	738	2.69	772	2.93	804	3.18	836	3.44	866	3.69	895	3.96	922	4.23	961	4.77	985	5.03	1008	5.28	1032	5.53	1054	5.79	1083	5.88	1105	6.16	1125	6.46	1145	6.77	—	—	—	—
7300 [3445]	—	—	—	—	745	2.78	778	3.03	810	3.28	841	3.54	871	3.80	899	4.07	927	4.34	965	4.88	989	5.14	1012	5.40	1036	5.66	1058	5.92	1087	6.01	1109	6.30	1129	6.61	1149	6.93	—	—	—	—
7400 [3492]	—	—	—	—	751	2.87	784	3.12	816	3.38	847	3.64	876	3.91	904	4.18	944	4.73	969	4.99	993	5.25	1016	5.52	1040	5.78	1062	6.05	1092	6.15	1113	6.45	1133	6.76	1153	7.09	—	—	—	—
7500 [3539]	—	—	—	—	758	2.97	790	3.22	822	3.49	852	3.75	881	4.03	909	4.30	949	4.84	973	5.11	997	5.37	1021	5.64	1044	5.91	1066	6.18	1096	6.30	1117	6.60	1137	6.92	—	—	—	—	—	—
7600 [3586]	—	—	731	2.82	764	3.07	797	3.33	828	3.60	858	3.87	886	4.15	914	4.43	953	4.95	977	5.23	1001	5.50	1025	5.78	1048	6.05	1079	6.15	1100	6.45	1121	6.76	1141	7.08	—	—	—	—	—	—
7700 [3633]	—	—	738	2.92	771	3.18	803	3.44	834	3.71	863	3.99	892	4.27	919	4.56	957	5.07	982	5.35	1006	5.63	1029	5.91	1052	6.19	1083	6.30	1105	6.60	1125	6.92	1145	7.25	—	—	—	—	—	—
7800 [3681]	—	—	745	3.02	778	3.29	809	3.56	840	3.83	869	4.11	897	4.40	924	4.69	962	5.20	986	5.48	1010	5.77	1034	6.05	1057	6.34	1088	6.45	1109	6.75	1129	7.08	1149	7.42	—	—	—	—	—	—
7900 [3728]	—	—	752	3.13	784	3.40	816	3.68	846	3.96	874	4.24	902	4.53	929	4.83	966	5.33	991	5.62	1015	5.91	1038	6.20	1061	6.49	1092	6.60	1113	6.91	1134	7.24	1153	7.59	—	—	—	—	—	—
8000 [3775]	—	—	759	3.25	791	3.52	822	3.80	852	4.09	880	4.38	907	4.67	946	5.17	971	5.47	996	5.76	1019	6.06	1043	6.35	1066	6.65	1097	6.75	1118	7.08	1138	7.41	—	—	—	—	—	—	—	—
8100 [3822]	733	3.10	766	3.37	798	3.65	828	3.93	858	4.22	886	4.52	913	4.82	951	5.31	976	5.61	1000	5.91	1024	6.21	1047	6.51	1080	6.60	1101	6.91	1122	7.24	1142	7.59	—	—	—	—	—	—	—	—
8200 [3869]	740	3.22	773	3.50	804	3.78	835	4.07	864	4.36	892	4.66	918	4.96	956	5.45	981	5.75	1005	6.06	1029	6.37	1052	6.67	1085	6.76	1106	7.08	1127	7.41	1147	7.76	—	—	—	—	—	—	—	—
8300 [3917]	748	3.34	780	3.63	811	3.91	841	4.20	870	4.50	897	4.81	924	5.12	961	5.60	986	5.91	1010	6.22	1034	6.53	1057	6.84	1089	6.92	1111	7.24	1131	7.59	1151	7.94	—	—	—	—	—	—	—	—
8400 [3964]	756	3.47	787	3.76	818	4.05	848	4.35	876	4.65	903	4.96	929	5.27	966	5.75	991	6.06	1015	6.38	1039	6.70	1062	7.01	1094	7.08	1115	7.41	1136	7.76	—	—	—	—	—	—	—	—	—	—
8500 [4011]	763	3.61	795	3.90	825	4.19	854	4.50	882	4.80	909	5.12	946	5.58	972	5.90	996	6.22	1020	6.55	1044	6.87	1067	7.19	1099	7.25	1120	7.59	1140	7.94	—	—	—	—	—	—	—	—	—	—
8600 [4058]	771	3.75	802	4.04	832	4.34	861	4.65	888	4.96	915	5.28	952	5.74	977	6.06	1001	6.39	1026	6.72	1049	7.04	1082	7.09	1104	7.42	1125	7.77	1145	8.13	—	—	—	—	—	—	—	—	—	—
8700 [4105]	778	3.89	809	4.19	839	4.50	867	4.81	895	5.12	921	5.45	957	5.90	982	6.23	1007	6.56	1031	6.89	1054	7.23	1087	7.25	1109	7.59	1129	7.95	1149	8.32	—	—	—	—	—	—	—	—	—	—
8800 [4153]	786	4.04	816	4.34	846	4.65	874	4.97	901	5.29	927	5.62	963	6.07	988	6.40	1012	6.74	1036	7.08	1060	7.41	1092	7.43	1113	7.77	1134	8.13	1154	8.51	—	—	—	—	—	—	—	—	—	—
8900 [4200]	794	4.19	824	4.50	853	4.82	881	5.14	907	5.46	943	5.90	968	6.24	993	6.58	1018	6.92	1042	7.26	1065	7.61	1097	7.60	1118	7.95	1139	8.32	—	—	—	—	—	—	—	—	—	—	—	—
9000 [4247]	801	4.35	831	4.66	860	4.98	887	5.31	914	5.64	949	6.07	974	6.41	999	6.76	1023	7.11	1047	7.45	1081	7.44	1102	7.78	1123	8.14	1144	8.51	—	—	—	—	—	—	—	—	—	—	—	—
9100 [4294]	809	4.51	839	4.83	867	5.15	894	5.48	920	5.82	954	6.24	980	6.59	1005	6.95	1029	7.30	1053	7.65	1086	7.61	1107	7.96	1128	8.33	1148	8.71	—	—	—	—	—	—	—	—	—	—	—	—
9200 [4341]	817	4.68	846	5.00	874	5.33	901	5.66	926	6.00	960	6.42	986	6.78	1010	7.14	1035	7.50	1059	7.85	1091	7.79	1112	8.15	1133	8.52	1153	8.91	—	—	—	—	—	—	—	—	—	—	—	—
9300 [4388]	825	4.85	853	5.18	881	5.51	908	5.85	941	6.25	966	6.61	992	6.97	1016	7.33	1041	7.70	1065	8.06	1096	7.98	1118	8.34	1138	8.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9400 [4436]	832	5.03	861	5.36	888	5.70	914	6.04	947	6.43	972	6.80	998	7.17	1022	7.54	1047	7.90	1080	7.81	1102	8.16	1123	8.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9500 [4483]	840	5.21	868	5.55	895	5.89	921	6.24	953	6.62	979	7.00	1004	7.37	1029	7.74	1053	8.12	1085	7.99	1107	8.36	1128	8.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9600 [4530]	848	5.40	876	5.74	903	6.08	928	6.44	959	6.82	985	7.20	1010	7.58	1035	7.95	1059	8.33	1091	8.18	1112	8.55	1133	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

NOTE: F-Drive left of bold line, G-Drive between the bold lines, H-Drive right of both bold lines

Drive Package	F						G						H					
Motor H.P. [W]	5 [3,728.5]						5 [3,728.5]						7.5 [5,592.7]					
Blower Sheave	BK105						BK90						BK105					
Motor Sheave	1VP-56						1VP-56						1VP71					
Turns Open	1	2	**3**	4	5	6	1	2	3	**4**	5	6	1	2	3	**4**	5	6
RPM	919	885	**857**	827	797	764	1,047	1,002	975	**938**	901	871	1,140	1,110	1,073	**1,048**	1,017	984

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure.
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.
5. An RPM meter must be used to receive an accurate airflow reading.

[ ] Designates Metric Conversions

COMPONENT AIRFLOW RESISTANCE—20 TON

CFM [L/s]	6400 [3020]	6600 [3114]	6800 [3209]	7000 [3303]	7200 [3398]	7400 [3492]	7600 [3586]	7800 [3681]	8000 [3775]	8200 [3869]	8400 [3964]	8600 [4058]	8800 [4153]	9000 [4247]	9200 [4341]	9400 [4436]	9600 [4530]
	Resistance — Inches of Water [kPa]																
Wet Coil	0.08 [0.02]	0.09 [0.02]	0.09 [0.02]	0.09 [0.02]	0.09 [0.02]	0.10 [0.02]	0.10 [0.02]	0.10 [0.02]	0.10 [0.02]	0.11 [0.03]	0.11 [0.03]	0.11 [0.03]	0.11 [0.03]	0.12 [0.03]	0.12 [0.03]	0.12 [0.03]	0.12 [0.03]
Downflow Economizer RA Damper Open	0.25 [0.11]	0.26 [0.12]	0.26 [0.12]	0.27 [0.12]	0.28 [0.13]	0.29 [0.13]	0.30 [0.14]	0.31 [0.14]	0.32 [0.15]	0.33 [0.15]	0.33 [0.15]	0.34 [0.16]	0.35 [0.16]	0.36 [0.16]	0.37 [0.17]	0.38 [0.17]	0.39 [0.18]
Horizontal Economizer RA Damper Open	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.10 [0.04]	0.10 [0.04]	0.10 [0.04]	0.10 [0.04]	0.10 [0.04]	0.10 [0.04]	0.10 [0.04]	0.11 [0.05]	0.11 [0.05]	0.11 [0.05]	0.11 [0.05]
MERV 8 Filter	0.107 [0.05]	0.111 [0.05]	0.116 [0.05]	0.120 [0.05]	0.124 [0.05]	0.128 [0.06]	0.132 [0.06]	0.136 [0.06]	0.140 [0.06]	0.144 [0.06]	0.148 [0.06]	0.152 [0.07]	0.156 [0.07]	0.160 [0.07]	0.164 [0.07]	0.169 [0.07]	0.173 [0.08]
MERV 13 Filter	0.070 [0.03]	0.076 [0.03]	0.082 [0.03]	0.089 [0.04]	0.095 [0.04]	0.101 [0.04]	0.107 [0.05]	0.114 [0.05]	0.120 [0.05]	0.126 [0.05]	0.133 [0.06]	0.139 [0.06]	0.145 [0.06]	0.151 [0.07]	0.158 [0.07]	0.164 [0.07]	0.170 [0.08]

AIRFLOW CORRECTION FACTORS—20 TON

CFM	6400	6600	6800	7000	7200	7400	7600	7800	8000	8200	8400	8600	8800	9000	9200	9400	9600
[L/s]	[3020]	[3114]	[3209]	[3303]	[3398]	[3492]	[3586]	[3681]	[3775]	[3869]	[3964]	[4058]	[4153]	[4247]	[4341]	[4436]	[4530]
Total kBtu/h	0.98	0.98	0.99	0.99	1.00	1.00	0.96	0.97	0.97	0.98	0.98	0.98	0.99	0.99	0.99	1.00	1.00
Sensible kBtu/h	0.91	0.93	0.95	0.97	0.99	1.01	1.03	1.05	1.07	1.09	1.11	1.13	1.15	1.17	1.19	1.21	1.23
Power kW	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.01	1.01	1.01	1.01	1.02	1.02	1.02	1.02	1.03	1.03

NOTE: Multiply correction factor times gross performance data - resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE—25 TON — 60 Hz — DOWNFLOW

Air Flow CFM [L/s]	Model RGEGYB300 Voltage 208/230, 460, 575 — 3 phase 60 Hz																																					
	External Static Pressure—Inches of Water [kPa]																																						
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000 [3775]	—	—	—	—	—	—	—	—	—	—	855	4.22	884	4.47	913	4.71	943	4.95	974	5.17	1019	5.67	1043	5.96	1066	6.24	1088	6.52	1108	6.80	1127	7.07	1144	7.33	1165	7.52	1188	7.82	1211	8.13
8100 [3822]	—	—	—	—	—	—	—	—	—	—	861	4.32	890	4.57	919	4.82	949	5.06	980	5.29	1023	5.80	1048	6.09	1071	6.38	1092	6.66	1112	6.94	1130	7.21	1147	7.47	1169	7.67	1192	7.97	1215	8.29
8200 [3869]	—	—	—	—	—	—	—	—	—	—	867	4.43	896	4.68	925	4.93	956	5.17	987	5.40	1028	5.94	1052	6.23	1075	6.52	1096	6.80	1115	7.08	1133	7.35	1149	7.62	1173	7.81	1196	8.12	1219	8.45
8300 [3917]	—	—	—	—	—	—	—	—	845	4.27	873	4.53	902	4.79	931	5.04	962	5.29	993	5.52	1033	6.08	1057	6.37	1079	6.66	1099	6.94	1118	7.22	1136	7.49	1152	7.76	1178	7.97	1201	8.28	1223	8.62
8400 [3964]	—	—	—	—	—	—	—	—	851	4.37	879	4.64	908	4.90	938	5.16	968	5.40	1000	5.64	1038	6.22	1061	6.51	1083	6.80	1103	7.09	1122	7.37	1139	7.64	1159	7.82	1182	8.12	1205	8.45	1228	8.79
8500 [4011]	—	—	—	—	—	—	—	—	857	4.48	885	4.75	914	5.02	944	5.28	974	5.53	1018	6.06	1043	6.36	1065	6.65	1087	6.94	1107	7.23	1125	7.51	1142	7.79	1163	7.97	1186	8.28	1209	8.61	1232	8.96
8600 [4058]	—	—	—	—	—	—	—	—	863	4.59	891	4.87	920	5.14	950	5.40	981	5.65	1023	6.20	1047	6.50	1070	6.80	1091	7.09	1110	7.38	1128	7.66	1145	7.94	1168	8.13	1190	8.44	1213	8.78	1236	9.14
8700 [4105]	—	—	—	—	—	—	842	4.42	869	4.71	897	4.98	927	5.26	956	5.52	987	5.78	1028	6.34	1052	6.65	1074	6.94	1095	7.24	1114	7.53	1132	7.81	1148	8.09	1172	8.28	1195	8.61	1217	8.96	1240	9.32
8800 [4153]	—	—	—	—	—	—	848	4.53	875	4.82	904	5.10	933	5.38	963	5.65	994	5.91	1033	6.49	1057	6.79	1078	7.09	1099	7.39	1117	7.68	1135	7.96	1151	8.24	1176	8.45	1199	8.78	1222	9.13	1244	9.51
8900 [4200]	—	—	—	—	—	—	854	4.65	881	4.94	910	5.23	939	5.50	969	5.78	1000	6.04	1038	6.63	1061	6.94	1083	7.24	1103	7.54	1121	7.83	1138	8.12	1158	8.29	1181	8.61	1203	8.95	1226	9.31	1248	9.70
9000 [4247]	—	—	—	—	—	—	860	4.77	888	5.06	916	5.35	946	5.63	976	5.91	1019	6.47	1043	6.78	1066	7.09	1087	7.39	1106	7.69	1124	7.98	1141	8.27	1163	8.45	1185	8.78	1208	9.13	1230	9.50	1252	9.89
9100 [4294]	—	—	—	—	—	—	866	4.89	894	5.19	922	5.48	952	5.76	982	6.04	1024	6.62	1048	6.93	1070	7.24	1091	7.55	1110	7.84	1128	8.14	1144	8.43	1167	8.62	1190	8.96	1212	9.31	1234	9.69	1256	10.08
9200 [4341]	—	—	—	—	845	4.70	872	5.01	900	5.31	929	5.61	958	5.90	989	6.18	1029	6.77	1053	7.08	1075	7.39	1095	7.70	1114	8.00	1131	8.30	1147	8.59	1172	8.79	1194	9.13	1216	9.49	1238	9.88	1260	10.28
9300 [4388]	—	—	—	—	851	4.83	878	5.14	906	5.44	935	5.74	965	6.03	995	6.32	1034	6.92	1057	7.24	1079	7.55	1099	7.86	1118	8.16	1135	8.46	1150	8.75	1176	8.96	1198	9.31	1221	9.68	1243	10.07	—	—
9400 [4436]	—	—	—	—	857	4.95	885	5.27	913	5.58	942	5.88	971	6.17	1002	6.46	1039	7.08	1062	7.39	1083	7.71	1103	8.02	1121	8.32	1138	8.62	1158	8.80	1181	9.14	1203	9.50	1225	9.87	1247	10.27	—	—
9500 [4483]	—	—	—	—	864	5.08	891	5.40	919	5.71	948	6.02	978	6.31	1021	6.91	1044	7.23	1067	7.55	1088	7.87	1107	8.18	1125	8.48	1141	8.78	1163	8.97	1185	9.32	1207	9.68	1229	10.07	1251	10.47	—	—
9600 [4530]	—	—	843	4.88	870	5.21	897	5.53	926	5.85	955	6.16	985	6.46	1026	7.06	1049	7.39	1071	7.71	1092	8.03	1111	8.34	1128	8.64	1144	8.94	1167	9.15	1190	9.50	1212	9.87	1234	10.27	1255	10.68	—	—
9700 [4577]	—	—	849	5.01	876	5.35	904	5.67	932	5.99	961	6.30	991	6.61	1031	7.22	1054	7.55	1076	7.87	1096	8.19	1115	8.50	1132	8.81	1148	9.11	1172	9.33	1194	9.69	1216	10.07	1238	10.47	1260	10.89	—	—
9800 [4624]	—	—	856	5.15	882	5.48	910	5.81	939	6.13	968	6.45	998	6.76	1037	7.38	1059	7.71	1081	8.03	1100	8.35	1119	8.67	1135	8.97	1151	9.28	1177	9.51	1199	9.88	1221	10.27	1242	10.67	—	—	—	—
9900 [4672]	—	—	862	5.28	889	5.62	917	5.95	945	6.28	975	6.60	1018	7.21	1042	7.54	1064	7.87	1085	8.20	1104	8.52	1122	8.83	1139	9.14	1159	9.35	1181	9.70	1203	10.07	1225	10.47	1247	10.88	—	—	—	—
10000 [4719]	842	5.07	868	5.42	895	5.76	923	6.10	952	6.43	981	6.75	1023	7.37	1047	7.71	1069	8.04	1090	8.36	1109	8.69	1126	9.00	1142	9.31	1164	9.53	1186	9.89	1208	10.27	1229	10.67	1251	11.09	—	—	—	—
10100 [4766]	848	5.21	875	5.56	902	5.91	930	6.25	959	6.58	988	6.90	1029	7.54	1052	7.87	1074	8.21	1094	8.53	1113	8.85	1130	9.17	1146	9.48	1169	9.72	1191	10.09	1212	10.47	1234	10.88	1255	11.31	—	—	—	—
10200 [4813]	855	5.35	881	5.71	908	6.06	936	6.40	965	6.73	995	7.06	1034	7.70	1057	8.04	1078	8.37	1098	8.70	1117	9.03	1134	9.34	1149	9.66	1173	9.91	1195	10.28	1217	10.68	1238	11.09	1260	11.53	—	—	—	—
10300 [4860]	861	5.49	888	5.85	915	6.21	943	6.55	972	6.89	1002	7.22	1040	7.87	1062	8.21	1083	8.54	1103	8.87	1121	9.20	1137	9.52	1152	9.83	1178	10.10	1200	10.48	1221	10.89	1243	11.31	—	—	—	—	—	—
10400 [4908]	868	5.64	894	6.00	922	6.36	950	6.71	979	7.05	1021	7.69	1045	8.04	1067	8.38	1088	8.72	1107	9.05	1125	9.37	1141	9.69	1161	9.93	1183	10.30	1205	10.69	1226	11.10	1247	11.53	—	—	—	—	—	—
10500 [4955]	874	5.79	901	6.16	928	6.51	957	6.87	986	7.21	1027	7.86	1050	8.21	1072	8.55	1092	8.89	1111	9.22	1129	9.55	1144	9.87	1166	10.12	1188	10.50	1209	10.90	1231	11.31	1252	11.75	—	—	—	—	—	—
10600 [5002]	881	5.94	907	6.31	935	6.67	963	7.03	993	7.38	1033	8.03	1056	8.38	1077	8.73	1097	9.06	1115	9.40	1132	9.73	1148	10.05	1171	10.32	1192	10.70	1214	11.11	1235	11.53	1256	11.98	—	—	—	—	—	—
10700 [5049]	887	6.09	914	6.47	942	6.83	970	7.19	1000	7.55	1038	8.21	1061	8.56	1082	8.90	1101	9.24	1120	9.58	1136	9.91	1151	10.23	1176	10.52	1197	10.91	1219	11.32	1240	11.76	1261	12.21	—	—	—	—	—	—
10800 [5096]	894	6.25	921	6.63	948	7.00	977	7.36	1020	8.02	1044	8.38	1066	8.73	1087	9.08	1106	9.42	1124	9.76	1140	10.09	1159	10.35	1181	10.73	1202	11.12	1223	11.54	1244	11.98	—	—	—	—	—	—	—	—
10900 [5143]	900	6.41	927	6.79	955	7.16	984	7.53	1026	8.20	1049	8.56	1071	8.91	1092	9.26	1110	9.60	1128	9.94	1144	10.27	1164	10.55	1185	10.93	1207	11.34	1228	11.77	1249	12.21	—	—	—	—	—	—	—	—
11000 [5191]	907	6.57	934	6.96	962	7.33	991	7.70	1032	8.38	1055	8.74	1076	9.09	1096	9.44	1115	9.78	1132	10.12	1147	10.46	1169	10.75	1190	11.14	1212	11.56	1233	11.99	1254	12.45	—	—	—	—	—	—	—	—
11100 [5238]	914	6.74	941	7.13	969	7.50	998	7.88	1037	8.55	1060	8.92	1081	9.27	1101	9.62	1119	9.97	1136	10.31	1151	10.64	1174	10.96	1195	11.36	1216	11.78	1237	12.22	1258	12.68	—	—	—	—	—	—	—	—
11200 [5285]	921	6.91	948	7.30	976	7.68	1019	8.37	1043	8.73	1066	9.10	1086	9.45	1106	9.81	1124	10.15	1140	10.50	1158	10.78	1179	11.17	1200	11.58	1221	12.01	1242	12.45	—	—	—	—	—	—	—	—	—	—
11300 [5332]	927	7.08	955	7.47	983	7.86	1025	8.55	1049	8.92	1071	9.28	1091	9.64	1110	9.99	1128	10.34	1144	10.68	1163	10.99	1184	11.38	1205	11.80	1226	12.24	1247	12.69	—	—	—	—	—	—	—	—	—	—
11400 [5379]	934	7.25	962	7.65	990	8.04	1031	8.73	1055	9.10	1076	9.47	1096	9.83	1115	10.18	1132	10.53	1148	10.88	1168	11.20	1189	11.60	1210	12.03	1231	12.47	1252	12.93	—	—	—	—	—	—	—	—	—	—
11500 [5427]	941	7.43	969	7.83	997	8.22	1037	8.92	1060	9.29	1081	9.65	1101	10.01	1119	10.37	1136	10.72	1152	11.07	1173	11.41	1194	11.82	1215	12.25	1236	12.71	1256	13.18	—	—	—	—	—	—	—	—	—	—
11600 [5474]	948	7.61	976	8.01	1019	8.72	1043	9.10	1066	9.47	1087	9.84	1106	10.20	1124	10.56	1140	10.91	1157	11.24	1178	11.63	1199	12.05	1220	12.49	1240	12.95	1261	13.42	—	—	—	—	—	—	—	—	—	—
11700 [5521]	955	7.79	983	8.19	1026	8.91	1049	9.29	1071	9.66	1092	10.03	1111	10.40	1128	10.76	1145	11.11	1162	11.45	1183	11.85	1204	12.28	1225	12.72	1245	13.19	—	—	—	—	—	—	—	—	—	—	—	—
11800 [5568]	962	7.97	990	8.38	1032	9.10	1055	9.48	1077	9.86	1097	10.23	1116	10.59	1133	10.95	1149	11.31	1167	11.67	1188	12.08	1209	12.51	1230	12.96	1250	13.44	—	—	—	—	—	—	—	—	—	—	—	—
11900 [5615]	969	8.16	998	8.57	1038	9.29	1061	9.67	1082	10.05	1102	10.42	1120	10.79	1137	11.15	1153	11.50	1173	11.89	1193	12.31	1214	12.75	1235	13.21	1255	13.69	—	—	—	—	—	—	—	—	—	—	—	—
12000 [5663]	977	8.35	1020	9.09	1044	9.48	1067	9.86	1088	10.24	1107	10.62	1125	10.98	1142	11.35	1157	11.71	1178	12.11	1199	12.54	1219	12.99	1240	13.45	1260	13.94	—	—	—	—	—	—	—	—	—	—	—	—

NOTE: F-Drive left of bold line, G-Drive between the bold lines, H-Drive right of both bold lines

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE— 25 TON — 60 Hz — DOWNFLOW (CONTINUED)

Drive Package	F						G						H					
Motor H.P. [W]	7.5 [5,592.7]						10 [7,457.0]						10 [7,457.0]					
Blower Sheave	BK110						BK105						BK95					
Motor Sheave	1VP-65						1VP-71						1VP71					
Turns Open	1	2	**3**	4	5	6	1	2	3	**4**	5	6	1	2	3	**4**	5	6
RPM	998	967	**935**	903	873	842	1,146	1,110	1,081	**1,045**	1,018	978	1,258	1,204	1,172	**1,144**	1,098	1,073

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure.
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.
5. An RPM meter must be used to receive an accurate airflow reading.

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE—25 TON — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]	Model RGEGYB300 Voltage 208/230, 460, 575 — 3 phase 60 Hz																																					
	External Static Pressure—Inches of Water [kPa]																																					
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000 [3775]	—	—	—	—	—	—	—	—	851	3.99	881	4.25	910	4.51	939	4.79	967	5.08	994	5.38	1029	5.80	1053	6.09	1076	6.40	1099	6.72	1120	7.06	1161	7.88	1187	8.26	1211	8.64	1235	9.01	1258	9.37
8100 [3822]	—	—	—	—	—	—	—	—	857	4.12	887	4.37	916	4.64	944	4.92	972	5.21	999	5.51	1034	5.94	1058	6.24	1081	6.55	1103	6.88	1124	7.21	1166	8.00	1191	8.39	1215	8.76	1239	9.13	1261	9.50
8200 [3869]	—	—	—	—	—	—	—	—	864	4.24	893	4.50	922	4.77	950	5.05	977	5.34	1015	5.79	1039	6.08	1063	6.39	1086	6.70	1108	7.03	1129	7.37	1170	8.13	1195	8.52	1219	8.89	1242	9.26	1265	9.63
8300 [3917]	—	—	—	—	—	—	842	4.12	871	4.37	900	4.63	928	4.90	955	5.18	982	5.47	1020	5.93	1044	6.23	1068	6.54	1090	6.86	1112	7.19	1133	7.54	1175	8.27	1199	8.65	1223	9.03	1246	9.40	1268	9.76
8400 [3964]	—	—	—	—	—	—	849	4.25	878	4.50	906	4.76	934	5.03	961	5.31	987	5.61	1025	6.08	1049	6.38	1072	6.69	1095	7.02	1116	7.35	1137	7.70	1179	8.41	1203	8.79	1227	9.17	1249	9.53	—	—
8500 [4011]	—	—	—	—	—	—	856	4.38	885	4.63	912	4.89	940	5.17	966	5.45	992	5.75	1031	6.23	1054	6.53	1077	6.85	1099	7.18	1121	7.52	1159	8.16	1184	8.55	1208	8.93	1231	9.31	1253	9.68	—	—
8600 [4058]	—	—	—	—	—	—	863	4.51	891	4.76	919	5.03	946	5.31	972	5.59	997	5.89	1036	6.38	1059	6.68	1082	7.01	1104	7.34	1125	7.68	1164	8.31	1188	8.70	1212	9.08	1234	9.46	1256	9.82	—	—
8700 [4105]	—	—	—	—	842	4.40	870	4.65	898	4.90	925	5.17	951	5.45	977	5.74	1002	6.04	1041	6.53	1065	6.84	1087	7.17	1109	7.50	1130	7.85	1169	8.46	1193	8.85	1216	9.23	1238	9.61	1260	9.97	—	—
8800 [4153]	—	—	—	—	849	4.54	877	4.79	904	5.04	931	5.31	957	5.59	983	5.88	1023	6.38	1046	6.68	1070	7.00	1092	7.33	1113	7.67	1134	8.03	1173	8.62	1197	9.01	1220	9.39	1242	9.76	1263	10.13	—	—
8900 [4200]	—	—	—	—	856	4.68	884	4.93	911	5.19	937	5.46	963	5.74	988	6.03	1028	6.53	1052	6.84	1075	7.16	1097	7.50	1118	7.84	1139	8.20	1178	8.78	1202	9.17	1224	9.55	1246	9.92	1267	10.29	—	—
9000 [4247]	—	—	—	—	864	4.82	891	5.07	918	5.33	943	5.60	969	5.89	993	6.18	1034	6.69	1057	7.00	1080	7.33	1102	7.67	1123	8.02	1159	8.55	1183	8.95	1206	9.33	1228	9.71	1250	10.08	—	—	—	—
9100 [4294]	—	—	843	4.73	871	4.97	898	5.22	924	5.48	949	5.75	974	6.04	998	6.34	1039	6.85	1063	7.17	1085	7.50	1107	7.84	1128	8.19	1164	8.72	1188	9.12	1210	9.50	1232	9.88	1253	10.25	—	—	—	—
9200 [4341]	—	—	851	4.87	878	5.11	905	5.37	930	5.63	956	5.91	980	6.19	1021	6.71	1045	7.01	1068	7.34	1090	7.67	1112	8.02	1132	8.37	1169	8.90	1192	9.29	1215	9.68	1236	10.05	1257	10.43	—	—	—	—
9300 [4388]	—	—	859	5.02	885	5.26	911	5.52	937	5.78	962	6.06	986	6.35	1027	6.87	1050	7.18	1073	7.51	1095	7.84	1117	8.19	1137	8.56	1174	9.08	1197	9.47	1219	9.85	1240	10.23	1261	10.60	—	—	—	—
9400 [4436]	—	—	866	5.17	893	5.42	918	5.67	943	5.94	967	6.22	991	6.51	1033	7.03	1056	7.35	1079	7.68	1101	8.02	1122	8.37	1156	8.86	1179	9.26	1202	9.65	1224	10.03	1245	10.41	1265	10.78	—	—	—	—
9500 [4483]	847	5.09	874	5.32	900	5.57	925	5.83	949	6.10	973	6.38	997	6.68	1038	7.20	1062	7.52	1084	7.85	1106	8.20	1127	8.56	1161	9.05	1184	9.45	1206	9.84	1228	10.22	1249	10.60	—	—	—	—	—	—
9600 [4530]	855	5.24	881	5.48	907	5.73	932	5.99	956	6.26	979	6.55	1002	6.84	1044	7.37	1067	7.69	1090	8.03	1111	8.38	1132	8.74	1166	9.24	1189	9.64	1211	10.03	1232	10.41	1253	10.79	—	—	—	—	—	—
9700 [4577]	863	5.40	889	5.64	914	5.89	938	6.15	962	6.43	985	6.71	1026	7.22	1050	7.54	1073	7.87	1095	8.21	1116	8.57	1137	8.93	1172	9.44	1194	9.83	1216	10.22	1237	10.61	1257	10.98	—	—	—	—	—	—
9800 [4624]	871	5.56	896	5.80	921	6.05	945	6.32	968	6.59	991	6.88	1033	7.39	1056	7.71	1079	8.05	1101	8.39	1121	8.75	1154	9.24	1177	9.64	1199	10.03	1221	10.42	1241	10.80	1261	11.18	—	—	—	—	—	—
9900 [4672]	879	5.72	904	5.96	928	6.22	951	6.48	974	6.76	997	7.05	1039	7.57	1062	7.89	1084	8.23	1106	8.58	1127	8.94	1160	9.44	1182	9.84	1204	10.24	1225	10.63	1245	11.01	1265	11.38	—	—	—	—	—	—
10000 [4719]	886	5.89	911	6.13	935	6.39	958	6.66	980	6.94	1002	7.23	1045	7.74	1068	8.07	1090	8.41	1111	8.77	1132	9.14	1165	9.65	1188	10.05	1209	10.45	1230	10.83	1250	11.21	—	—	—	—	—	—	—	—
10100 [4766]	894	6.05	918	6.30	942	6.56	964	6.83	987	7.11	1027	7.60	1051	7.92	1074	8.26	1096	8.60	1117	8.96	1137	9.33	1171	9.86	1193	10.26	1214	10.66	1235	11.05	1254	11.43	—	—	—	—	—	—	—	—
10200 [4813]	902	6.22	925	6.47	949	6.73	971	7.00	993	7.29	1034	7.78	1057	8.10	1080	8.44	1102	8.79	1122	9.16	1154	9.68	1177	10.08	1198	10.48	1219	10.88	1239	11.26	1258	11.64	—	—	—	—	—	—	—	—
10300 [4860]	909	6.39	933	6.65	955	6.91	977	7.18	999	7.47	1040	7.96	1063	8.29	1086	8.63	1107	8.99	1128	9.35	1160	9.90	1182	10.30	1204	10.70	1224	11.10	1244	11.48	1263	11.86	—	—	—	—	—	—	—	—
10400 [4908]	917	6.57	940	6.82	962	7.09	984	7.36	1023	7.82	1047	8.14	1070	8.48	1092	8.82	1113	9.18	1134	9.55	1166	10.12	1188	10.53	1209	10.93	1229	11.32	1249	11.71	1267	12.09	—	—	—	—	—	—	—	—
10500 [4955]	925	6.75	947	7.00	969	7.27	990	7.55	1029	8.00	1053	8.33	1076	8.67	1098	9.02	1119	9.38	1139	9.76	1172	10.36	1193	10.76	1214	11.16	1234	11.55	1253	11.94	—	—	—	—	—	—	—	—	—	—
10600 [5002]	932	6.93	954	7.19	976	7.45	996	7.73	1036	8.19	1059	8.52	1082	8.86	1104	9.21	1125	9.58	1156	10.18	1178	10.59	1199	11.00	1219	11.39	1239	11.79	1258	12.17	—	—	—	—	—	—	—	—	—	—
10700 [5049]	940	7.11	961	7.37	982	7.64	1003	7.92	1043	8.37	1066	8.71	1088	9.05	1110	9.41	1130	9.79	1162	10.42	1184	10.83	1205	11.23	1225	11.63	1244	12.02	1262	12.41	—	—	—	—	—	—	—	—	—	—
10800 [5096]	947	7.30	968	7.56	989	7.83	1026	8.24	1049	8.56	1072	8.90	1095	9.25	1116	9.62	1136	9.99	1168	10.66	1190	11.07	1210	11.48	1230	11.88	1249	12.27	1267	12.65	—	—	—	—	—	—	—	—	—	—
10900 [5143]	954	7.49	975	7.75	995	8.02	1033	8.42	1056	8.76	1079	9.10	1101	9.45	1122	9.82	1152	10.50	1174	10.91	1195	11.32	1216	11.73	1235	12.12	1254	12.51	—	—	—	—	—	—	—	—	—	—	—	—
11000 [5191]	962	7.68	982	7.94	1002	8.22	1039	8.62	1063	8.95	1085	9.30	1107	9.66	1128	10.03	1159	10.75	1180	11.16	1201	11.57	1221	11.98	1240	12.37	1259	12.76	—	—	—	—	—	—	—	—	—	—	—	—
11100 [5238]	969	7.87	989	8.14	1022	8.48	1046	8.81	1070	9.15	1092	9.50	1113	9.86	1134	10.24	1165	11.01	1187	11.42	1207	11.83	1227	12.23	1246	12.63	1264	13.02	—	—	—	—	—	—	—	—	—	—	—	—
11200 [5285]	976	8.07	996	8.34	1030	8.68	1053	9.01	1076	9.35	1098	9.71	1120	10.07	1140	10.45	1172	11.27	1193	11.68	1213	12.09	1232	12.49	1251	12.89	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11300 [5332]	983	8.27	1003	8.54	1037	8.87	1060	9.21	1083	9.55	1105	9.91	1126	10.29	1157	11.11	1178	11.53	1199	11.95	1219	12.36	1238	12.76	1256	13.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11400 [5379]	991	8.47	1020	8.74	1044	9.07	1067	9.41	1090	9.76	1112	10.12	1132	10.50	1164	11.38	1185	11.80	1205	12.22	1225	12.63	1243	13.03	1261	13.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11500 [5427]	998	8.68	1027	8.94	1051	9.27	1074	9.61	1097	9.97	1118	10.34	1139	10.72	1170	11.66	1191	12.08	1211	12.49	1231	12.90	1249	13.30	1266	13.69	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11600 [5474]	1010	8.82	1035	9.14	1058	9.47	1081	9.82	1103	10.18	1125	10.55	1156	11.51	1177	11.94	1198	12.36	1218	12.77	1236	13.18	1254	13.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11700 [5521]	1018	9.02	1042	9.34	1066	9.68	1088	10.03	1110	10.40	1131	10.77	1163	11.79	1184	12.22	1204	12.64	1224	13.05	1242	13.46	1260	13.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11800 [5568]	1026	9.22	1050	9.55	1073	9.89	1095	10.25	1117	10.61	1138	10.99	1170	12.08	1191	12.51	1211	12.93	1230	13.34	1248	13.75	1265	14.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11900 [5615]	1033	9.42	1057	9.75	1080	10.10	1103	10.46	1124	10.83	1156	11.94	1177	12.38	1198	12.80	1217	13.22	1236	13.63	1254	14.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12000 [5663]	1041	9.63	1065	9.96	1088	10.32	1110	10.68	1131	11.06	1163	12.24	1184	12.67	1204	13.10	1224	13.52	1242	13.93	1260	14.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

NOTE: F-Drive left of bold line, G-Drive between the bold lines, H-Drive right of both bold lines

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE—25 TON — 60 Hz — SIDEFLOW (CONTINUED)

Drive Package	F						G						H					
Motor H.P. [W]	7.5 [5,592.7]						10 [7,457.0]						10 [7,457.0]					
Blower Sheave	BK110						BK105						BK95					
Motor Sheave	1VP-65						1VP-71						1VP71					
Turns Open	1	2	**3**	4	5	6	1	2	3	**4**	5	6	1	2	3	**4**	5	6
RPM	996	962	**933**	902	872	841	1,134	1,108	1,068	**1,046**	1,016	984	1,255	1,215	1,179	**1,148**	1,114	1,078

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure.
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.
5. An RPM meter must be used to receive an accurate airflow reading.

COMPONENT AIRFLOW RESISTANCE—25 TON

CFM [L/s]	8000 [3775]	8400 [3964]	8800 [4153]	9200 [4341]	9600 [4530]	10000 [4719]	10400 [4908]	10800 [5096]	11200 [5285]	11600 [5474]	12000 [5663]
	Resistance — Inches of Water [kPa]										
Wet Coil	0.10 [0.03]	0.11 [0.03]	0.11 [0.03]	0.12 [0.03]	0.12 [0.03]	0.13 [0.03]	0.14 [0.03]	0.14 [0.03]	0.15 [0.04]	0.15 [0.04]	0.16 [0.04]
Downflow Economizer RA Damper Open	0.32 [0.15]	0.33 [0.15]	0.35 [0.16]	0.37 [0.17]	0.39 [0.18]	0.40 [0.18]	0.42 [0.19]	0.44 [0.20]	0.46 [0.21]	0.47 [0.22]	0.49 [0.23]
Horizontal Economizer RA Damper Open	0.10 [0.04]	0.10 [0.05]	0.10 [0.05]	0.11 [0.05]	0.11 [0.05]	0.11 [0.05]	0.12 [0.05]	0.12 [0.05]	0.12 [0.05]	0.13 [0.06]	0.13 [0.06]
MERV 8 Filter	0.140 [0.06]	0.148 [0.06]	0.156 [0.07]	0.164 [0.07]	0.173 [0.08]	0.181 [0.08]	0.189 [0.08]	0.197 [0.09]	0.205 [0.09]	0.213 [0.10]	0.221 [0.10]
MERV 13 Filter	0.120 [0.05]	0.133 [0.06]	0.145 [0.06]	0.158 [0.07]	0.170 [0.08]	0.183 [0.08]	0.196 [0.09]	0.208 [0.09]	0.221 [0.10]	0.233 [0.10]	0.246 [0.11]

AIRFLOW CORRECTION FACTORS—25 TON

CFM	8000	8400	8800	9200	9600	10000	10400	10800	11200	11600	12000
[L/s]	[3775]	[3964]	[4153]	[4341]	[4530]	[4719]	[4908]	[5096]	[5285]	[5474]	[5663]
Total kBtu/h	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09
Sensible kBtu/h	0.97	1.00	1.03	1.06	1.09	1.12	1.15	1.18	1.21	1.24	1.27
Power kW	1.00	1.00	1.00	1.01	1.01	1.01	1.02	1.02	1.02	1.03	1.03

NOTE: Multiply correction factor times gross performance data - resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

ELECTRICAL DATA – RGEGYB SERIES

		180ACF	180ACG	180ACH	180ADF	180ADG 180ADH	180AYF	180AYG 180AYH
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	518-633	518-633
	Volts	208/230	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3	3
	Hz	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	73/73	80/80	81/81	36	38	28	29
	Minimum Circuit Ampacity with Power Exhaust	83/83	90/90	91/91	41	43	31	32
	Minimum Overcurrent Protection Device Size	80/80	90/90	90/90	40	45	30	35
	Minimum Overcurrent Protection Device Size with Power Exhaust	90/90	100/100	100/100	45	50	35	35
	Maximum Overcurrent Protection Device Size	90/90	100/100	100/100	45	45	35	35
	Maximum Overcurrent Protection Device Size with Power Exhaust	100/100	110/110	110/110	50	50	35	40
Compressor Motor	No.	2	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3	3
	Amps (RLA), Comp. 1	24.4	24.4	24.4	11.9	11.9	9.4	9.4
	Amps (LRA), Comp. 1	200.0	200.0	200.0	103.0	103.0	78.0	78.0
	Amps (RLA), Comp. 2	24.4	24.4	24.4	11.9	11.9	9.4	9.4
	Amps (LRA), Comp. 2	200.0	200.0	200.0	103.0	103.0	78.0	78.0
Condenser Motor	No.	2	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	575	575
	Phase	1	1	1	1	1	1	1
	HP	3/4	3/4	3/4	3/4	3/4	3/4	3/4
	Amps (FLA, each)	4.2	4.2	4.2	2.3	2.3	1.2	1.2
	Amps (LRA, each)	10.1	10.1	10.1	4.9	4.9	3.4	3.4
Evaporator Fan	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3	3
	HP	3	5	5	3	5	3	5
	Amps (FLA, each)	9.2	13.6	13.6	4.6	6.3	3.5	5.1
	Amps (LRA, each)	74.5	95.0	95.0	38.1	47.5	30.0	38.0

ELECTRICAL DATA – RGEGYB SERIES

		210ACF	210ACG	210ACH	210ADF	210ADG	210ADH	210AYF	210AYG	210AYH
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	518-633	518-633	518-633
	Volts	208/230	208/230	208/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	Hz	60	60	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	85/85	90/90	97/97	38	40	43	29	30	33
	Minimum Circuit Ampacity with Power Exhaust	95/95	100/100	107/107	43	44	48	32	33	36
	Minimum Overcurrent Protection Device Size	100/100	100/100	110/110	45	45	50	35	35	35
	Minimum Overcurrent Protection Device Size with Power Exhaust	110/110	110/110	125/125	50	50	60	35	35	40
	Maximum Overcurrent Protection Device Size	110/110	110/110	125/125	50	50	50	35	35	40
	Maximum Overcurrent Protection Device Size with Power Exhaust	110/110	125/125	125/125	50	50	60	40	40	40
Compressor Motor	No.	2	2	2	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	Amps (RLA), Comp. 1	28.7	28.7	28.7	12.4	12.4	12.4	9.0	9.0	9.0
	Amps (LRA), Comp. 1	207.5	207.5	207.5	100.2	100.2	100.2	78.0	78.0	78.0
	Amps (RLA), Comp. 2	28.7	28.7	28.7	12.4	12.4	12.4	9.0	9.0	9.0
	Amps (LRA), Comp. 2	207.5	207.5	207.5	100.2	100.2	100.2	78.0	78.0	78.0
Condenser Motor	No.	2	2	2	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	HP	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Amps (FLA, each)	5.5	5.5	5.5	2.7	2.7	2.7	2.2	2.2	2.2
	Amps (LRA, each)	28.6	28.6	28.6	14.3	14.3	14.3	11.0	11.0	11.0
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	HP	3	5	7.5	3	5	7.5	3	5	7.5
	Amps (FLA, each)	9.2	13.6	21.0	4.6	6.3	9.6	3.5	5.1	7.7
	Amps (LRA, each)	74.5	95.0	127.0	38.1	47.5	63.5	30.0	38.0	50.8

ELECTRICAL DATA – RGEGYB SERIES

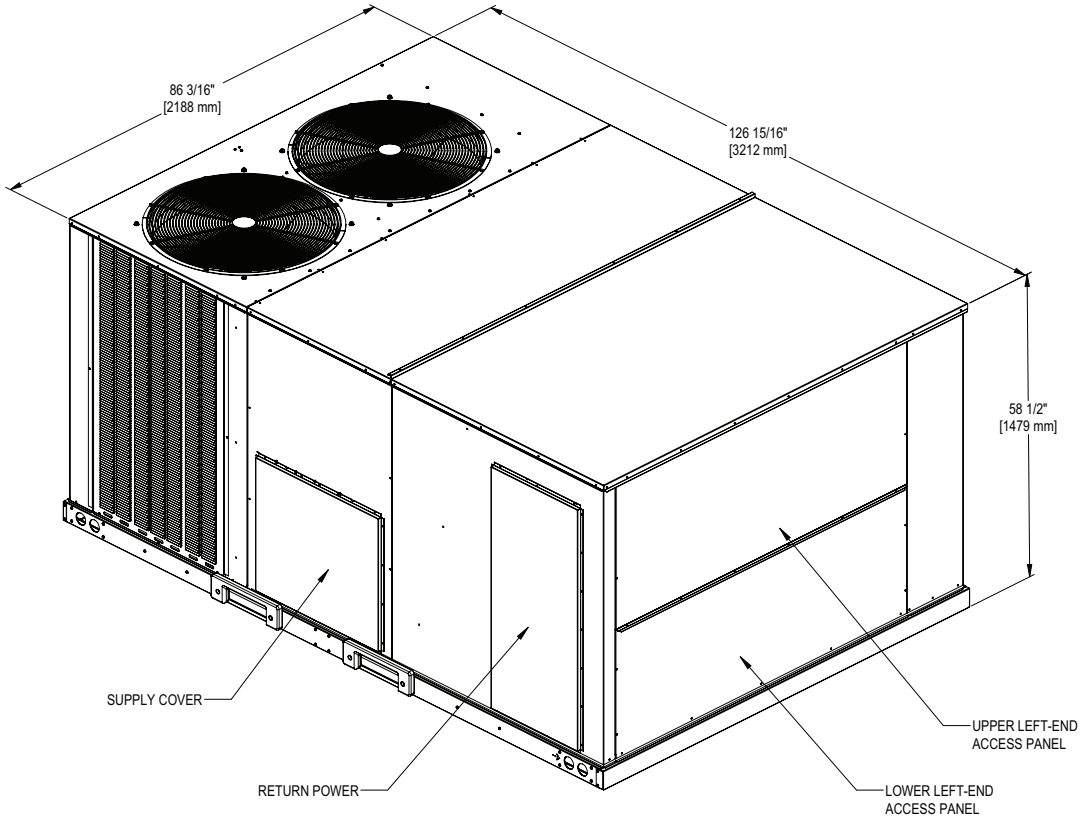
		240ACF 240ACG	240ACH	240ADF 240ADG	240ADH	240AYF 240AYG	240AYH
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-633	518-633
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	89/89	97/97	43	46	34	37
	Minimum Circuit Ampacity with Power Exhaust	99/99	107/107	47	50	37	40
	Minimum Overcurrent Protection Device Size	100/100	110/110	50	50	40	40
	Minimum Overcurrent Protection Device Size with Power Exhaust	110/110	125/125	50	60	40	45
	Maximum Overcurrent Protection Device Size	110/110	110/110	50	50	40	45
	Maximum Overcurrent Protection Device Size with Power Exhaust	125/125	125/125	50	60	45	45
Compressor Motor	No.	2	2	2	2	2	2
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Amps (RLA), Comp. 1	28.5	28.5	13.5	13.5	10.7	10.7
	Amps (LRA), Comp. 1	255.0	255.0	123.0	123.0	93.7	93.7
	Amps (RLA), Comp. 2	28.5	28.5	13.5	13.5	10.7	10.7
	Amps (LRA), Comp. 2	255.0	255.0	123.0	123.0	93.7	93.7
Condenser Motor	No.	2	2	2	2	2	2
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	HP	1.5	1.5	1.5	1.5	1.5	1.5
	Amps (FLA, each)	5.5	5.5	2.7	2.7	2.2	2.2
	Amps (LRA, each)	28.6	28.6	14.3	14.3	11.0	11.0
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	HP	5	7.5	5	7.5	5	7.5
	Amps (FLA, each)	13.6	21.0	6.3	9.6	5.1	7.7
	Amps (LRA, each)	95.0	127.0	47.5	63.5	38.0	50.8

ELECTRICAL DATA – RGEGYB SERIES

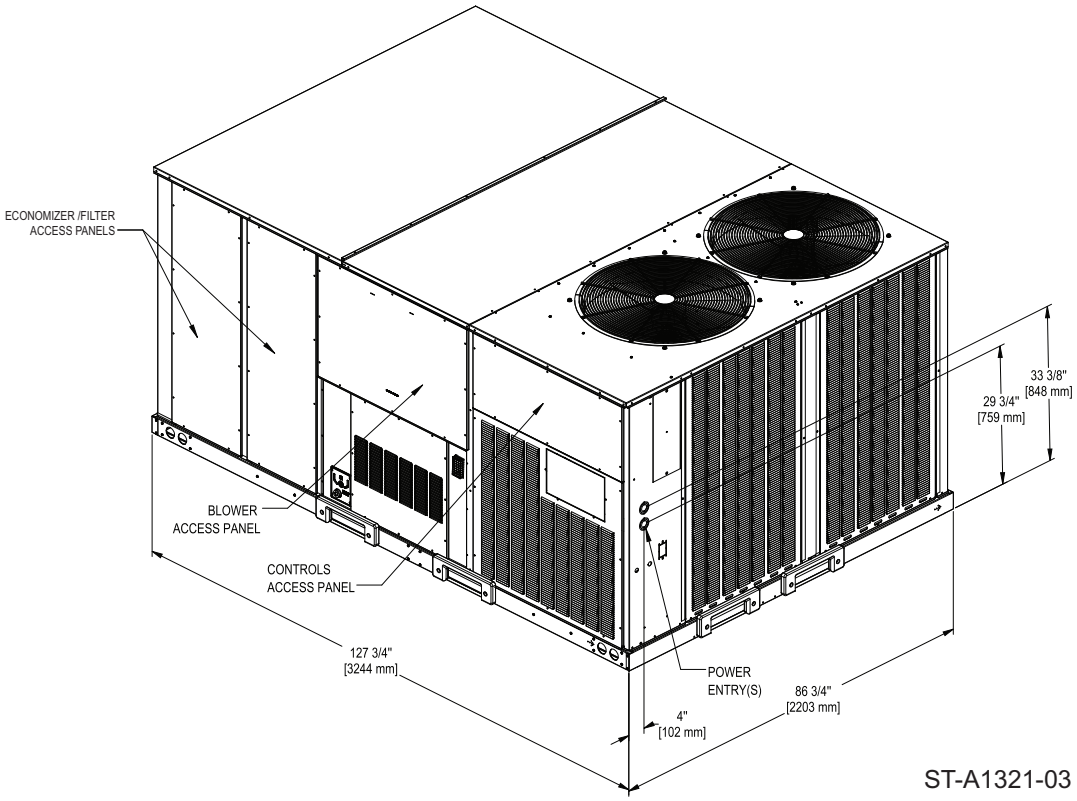
		300ACF	300ACG	300ACH	300ADF	300ADG 300ADH	300AYF	300AYG 300AYH
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	518-633	518-633
	Volts	208/230	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3	3
	Hz	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	127/127	132/132	133/133	59	62	43	46
	Minimum Circuit Ampacity with Power Exhaust	137/137	142/142	143/143	64	66	46	49
	Minimum Overcurrent Protection Device Size	150/150	150/150	150/150	70	70	50	50
	Minimum Overcurrent Protection Device Size with Power Exhaust	150/150	175/175	175/175	70	80	50	60
	Maximum Overcurrent Protection Device Size	150/150	150/150	150/150	70	80	50	50
	Maximum Overcurrent Protection Device Size with Power Exhaust	175/175	175/175	175/175	80	80	50	60
Compressor Motor	No.	2	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3	3
	Amps (RLA), Comp. 1	40.8	40.8	40.8	19.4	19.4	13.7	13.7
	Amps (LRA), Comp. 1	270.0	270.0	270.0	147.0	147.0	109.0	109.0
	Amps (RLA), Comp. 2	40.8	40.8	40.8	19.4	19.4	13.7	13.7
	Amps (LRA), Comp. 2	270.0	270.0	270.0	147.0	147.0	109.0	109.0
Condenser Motor	No.	2	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3	3
	HP	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Amps (FLA, each)	5.5	5.5	5.5	2.7	2.7	2.2	2.2
	Amps (LRA, each)	28.6	28.6	28.6	14.3	14.3	11.0	11.0
Evaporator Fan	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3	3
	HP	7.5	10	10	7.5	10	7.5	10
	Amps (FLA, each)	21.0	27.0	27.0	9.6	12.5	7.7	10.0
	Amps (LRA, each)	127.0	152.0	152.0	63.5	76.0	50.8	60.8

A2L REFRIGERANT INSTALLATION SAFETY DATA

		RGEGYB180	RGEGYB210	RGEGYB240	RGEGYB300
Refrigerant Charge weight (oz) Circuit 1 / Circuit 2		167/170	213/213	196/204	206/210
Minimum circulation airflow, Qmin (CFM)		565	708	679	698
Altitude above Sea Level (ft)	**Altitude Adjustment Factor**	**Minimum total space area, TAmin (sq-ft)**			
0	1.000	313	393	376	387
1000	1.025	321	402	385	397
2000	1.051	329	413	395	407
3000	1.078	338	423	405	417
4000	1.107	347	435	416	429
5000	1.138	357	447	428	441
6000	1.170	367	459	440	453
6500	1.187	372	466	446	459



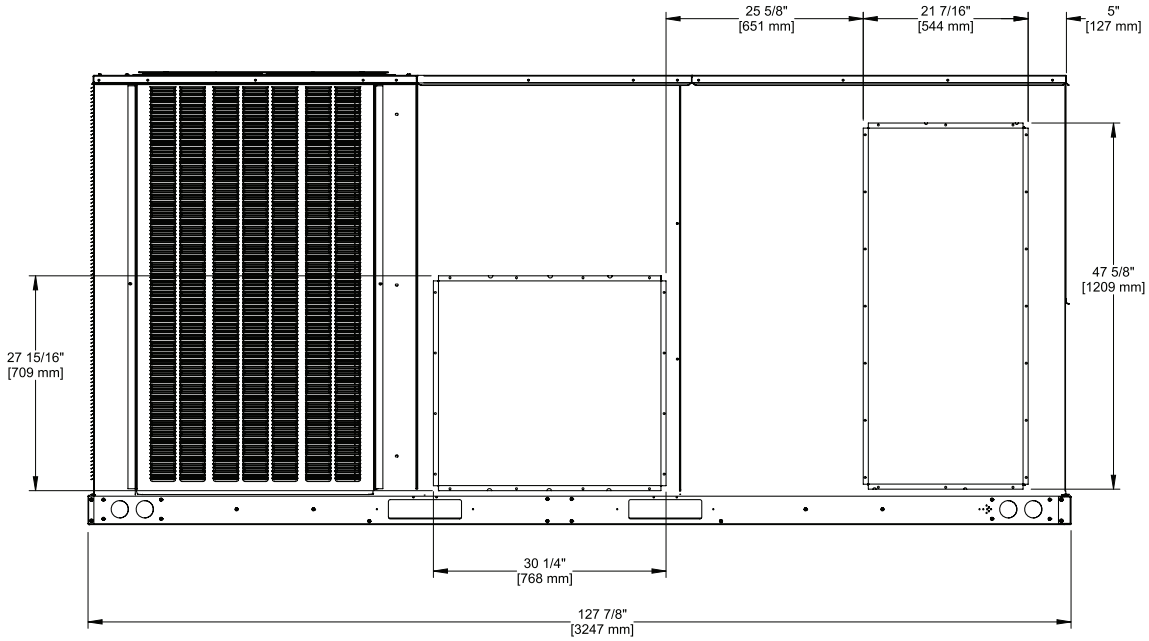
ST-A1321-02



ST-A1321-03

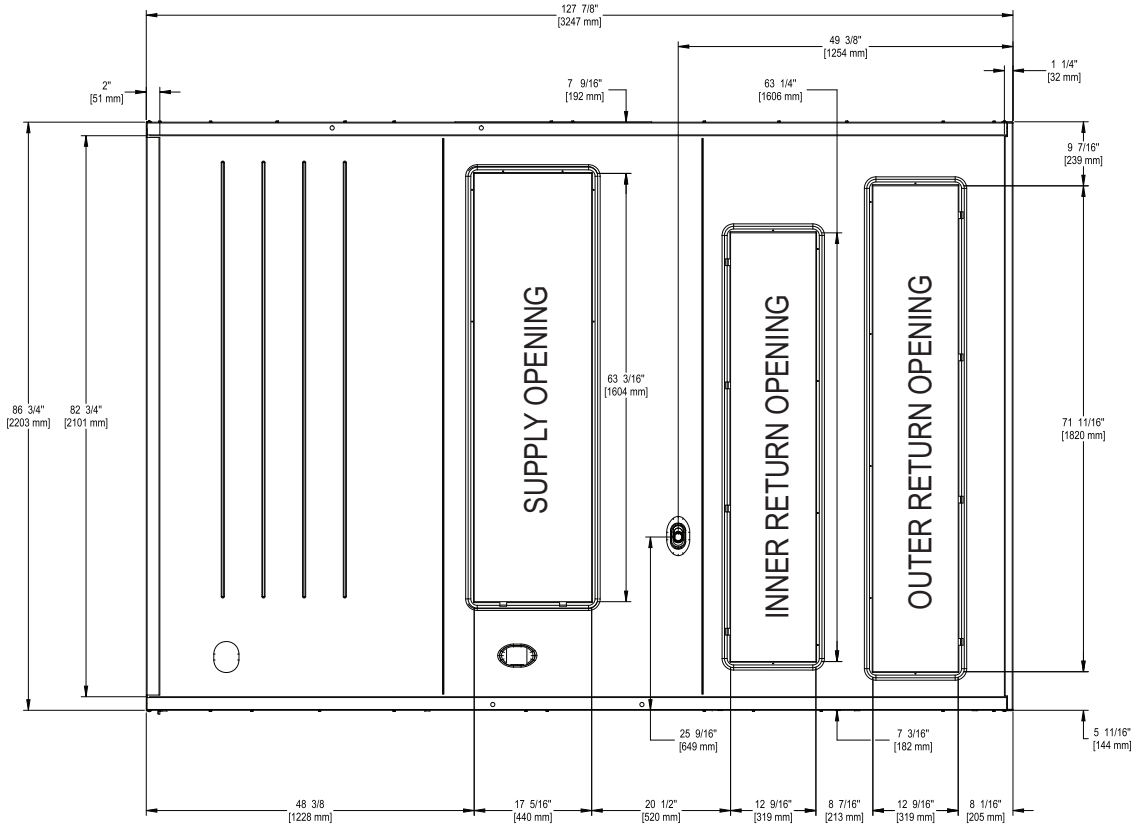
[ ] Designates Metric Conversions

SUPPLY AND RETURN DIMENSIONS FOR HORIZONTAL APPLICATIONS



ST-A1321-05

SUPPLY AND RETURN DIMENSIONS FOR DOWNFLOW APPLICATIONS (VIEW FROM BOTTOM UP)



ST-A1321-04

[ ] Designates Metric Conversions

WEIGHTS

Capacity Tons	Corner Weights by Percentage			
15.0–25.0	A	B	C	D
	27%	14%	45%	14%

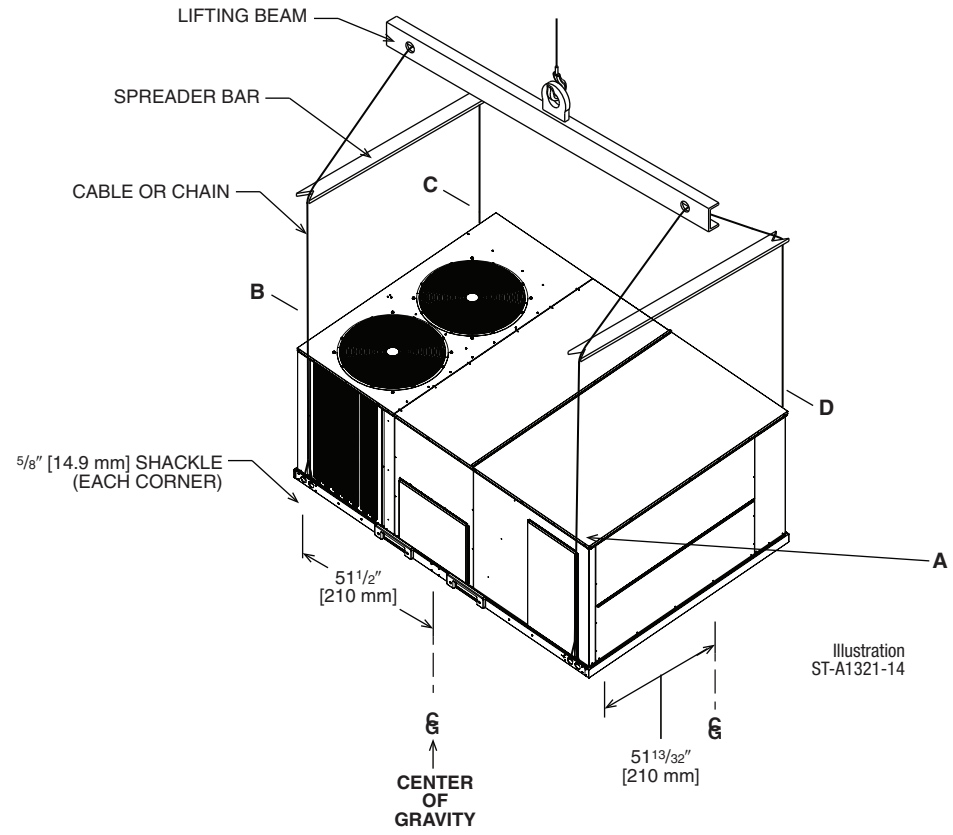
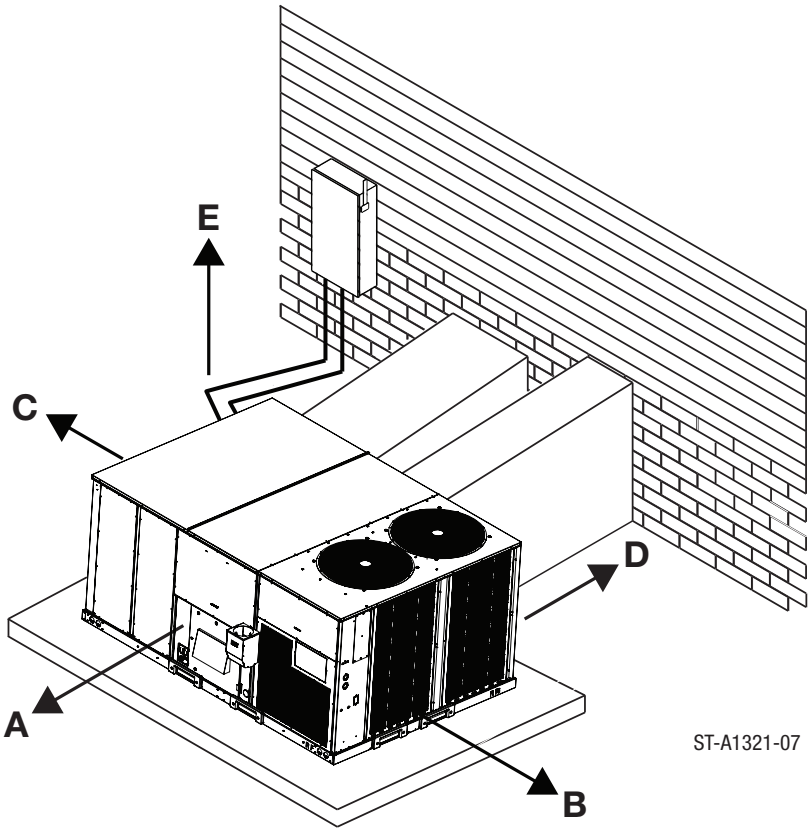


Illustration
ST-A1321-14



ST-A1321-07

CLEARANCES

The following minimum clearances must be observed for proper unit performance and serviceability.

RECOMMENDED CLEARANCE In. [mm]	LOCATION
80 [2032]	A - FRONT
36 [914] ①	B - CONDENSER END
48 [1219] ②	C - ECONOMIZER
24 [609]	D - DUCT SIDE
60 [1524]	E - ABOVE

① 18" [457 mm] MINIMUM IF DRAINPAN WILL NOT BE REMOVED.

② 48" [1219 MM] MINIMUM IF ECONOMIZER IS INSTALLED.

[ ] Designates Metric Conversions

FIELD-INSTALLED ACCESSORY EQUIPMENT

Accessory	Model Number	Shipping Weight Lbs. [kg]	Installed Weight Lbs. [kg]	Factory Installation Available?
Economizers				
Non-DDC Economizer with Single Enthalpy (Downflow) *MicroMetl Economizer with Siemens Controls*	RXRD-11MGDAM3	445 [202.0]	269 [122.1]	Yes
Non-DDC Economizer with Single Enthalpy (Downflow) *RRS Economizer with Siemens Controller*	RXRD-51MGDAM3	490 [222.3]	295 [133.8]	Yes
Non-DDC Economizer with Single Enthalpy (Horizontal) *MicroMetl Economizer with Siemens Controls*	RXRD-11MGHAM3	616 [279.7]	427.3 [194.0]	No
Non-DDC Economizer with Single Enthalpy (Horizontal) *RRS Economizer with Siemens Controller*	RXRD-51MGHAM3	394 [178.7]	278 [126.1]	No
Economizer Universal DDC Interface Kit[1]	RXRX-DDC01	5 [2.7]	3.5 [1.6]	Yes

Accessory	Model Number	Shipping Weight Lbs. [kg]	Installed Weight Lbs. [kg]	Factory Installation Available?
Power Exhaust (230V) Kit, Convertible *MicroMetl*	RXRX-CGF01C	104 [47.2]	98.65 [44.8]	No
Power Exhaust (230V) Kit, Convertible *RRS*	RXRX-RGF01C	81 [36.7]	75 [34.0]	No
Power Exhaust (460V) Kit, Convertible *MicroMetl*	RXRX-CGF01D	97 [44]	91.65 [41.6]	No
Power Exhaust (460V) Kit, Convertible *RRS*	RXRX-RGF01D	81 [36.7]	75 [34.0]	No
Power Exhaust (575V) Kit, Convertible *MicroMetl*	RXRX-CGF01Y	140 [63.6]	134.65 [61.1]	No
Power Exhaust (575V) Kit, Convertible *RRS*	RXRX-RGF01Y	81 [36.7]	75 [34.0]	No
Concentric Adapter/Transition 15 & 17.5 Ton	RXMC-GG01	468 [212.5]	450 [204.3]	No
Concentric Adapter/Transition 20 Ton	RXMC-GG02	468 [212.5]	450 [204.3]	No
Concentric Adapter/Transition 25 Ton	RXMC-GG03	468 [212.5]	450 [204.3]	No
Concentric Flush Mount Diffuser 15 & 17.5 Ton	RXRN-AEF2042	240 [109]	220 [99.9]	No
Concentric Flush Mount Diffuser 20 Ton	RXRN-AEF2348	270 [122.6]	250 [113.5]	No
Concentric Flush Mount Diffuser 25 Ton	RXRN-AEF2852	335 [152.1]	315 [143]	No
Concentric Step Down Diffuser 15 & 17.5 Ton	RXRN-AED2042	350 [158.9]	330 [149.8]	No
Concentric Step Down Diffuser 20 Ton	RXRN-AED2348	405 [183.9]	385 [174.8]	No
Concentric Step Down Diffuser 25 Ton	RXRN-AED2852	410 [186.1]	390 [177.1]	No
Convenience Outlet, Non-Powered	RXRX-BN01	2 [1.0]	1.5 [0.7]	Yes
Flue Diverter	RXRX-DGG05	10 [4.5]	9 [4.1]	No
Fresh Air Damper, Manual	RXRF-AGA1	110 [49.9]	104 [47.2]	No
Fresh Air Damper, Motorized	RXRF-AGB1	118 [53.6]	112 [50.8]	No
Fresh Air Damper, Motorized (DDC)	RXRF-AGC1	118 [53.6]	112 [50.8]	No
LP Kit l 240k & 320k Btu/h, 40k Burner	FP-42	2 [1.0]	1 [0.5]	No
LP Kit l 400k Btu/h, 50k Burner	FP-43	2 [1.0]	1 [0.5]	No
MERV 8 Filter	RXMF-M08A22420	8 [3.6]	7 [3.2]	Yes
MERV 13 Filter	RXMF-M13A22420	8 [3.6]	7 [3.2]	Yes
Outdoor Coil Louver Kit	RXRX-LKG01	94.5 [42.9]	90 [40.9]	Yes
Roofcurb - Restraint Clips	RXRX-DGCRC	8.5 [3.9]	7.5 [3.4]	No
Roofcurb Adapter	RXRX-DGCAE	358 [162.5]	350 [158.9]	No
Roofcurb Adapter Z-Bracket	RXRX-DGCAZ	60 [27.2]	42 [19.1]	No
Roofcurb, 14"	RXRX-DGC14	210 [95.3]	205 [93.1]	No
Roofcurb, 18"	RXRX-DGC18	250 [113.5]	245 [111.2]	No
Roofcurb, 24"	RXRX-DGC24	293 [133]	288 [130.8]	No
Unfused Service Disconnect[2]	RXRX-BPG1	12 [5.4]	10 [4.5]	Yes
Comfort Alert l 3ph, DDC	RXRX-AZG2	1 [0.5]	1 [0.5]	Yes
Communication Card, BACnet	RXRX-AY01	1 [0.5]	1 [0.5]	No
Communication Card, LonWorks	RXRX-AY02	1 [0.5]	1 [0.5]	No
Dual Enthalpy, Temperature and Humidity Sensor *(for Honeywell DDC)*	RXRX-BV02	1 [0.5]	1 [0.5]	No
Dual Enthalpy, Temperature and Humidity Sensor *(for Siemens)*	PD555460	1 [0.5]	1 [0.5]	No
Freeze Stat Kit (Non-DDC)	RXRX-AM06	1 [0.5]	1 [0.5]	Yes
Low-Ambient Control Kit	RXRZ-G01	3 [1.4]	2 [0.9]	Yes
Sensor, Carbon Dioxide (Wall Mount)	RXRX-AR02	3 [1.4]	2 [1.0]	No
Sensor, Room Humidity	RHC-ZNS4	1 [0.5]	1 [0.5]	No
Sensor, Room Temperature and Relative Humidity	RHC-ZNS5	1 [0.5]	1 [0.5]	No
Smoke Detector, Return (Downflow)	RXRX-BSG1	7 [3.2]	6 [2.7]	Yes
Smoke Detector, Return (Horizontal)	RXRX-BSG2	7 [3.2]	6 [2.7]	No
Smoke Detector, Return/Supply (Downflow)	RXRX-BSG3	10 [4.5]	9 [4.1]	Yes
Smoke Detector, Return/Supply (Horizontal)	RXRX-BSG4	10 [4.5]	9 [4.1]	No

[1]Does not have to be selected individually. This accessory will be included with the factory installed economizer for a DDC unit if required.
[2]Not available on 25 ton models with C Voltage.

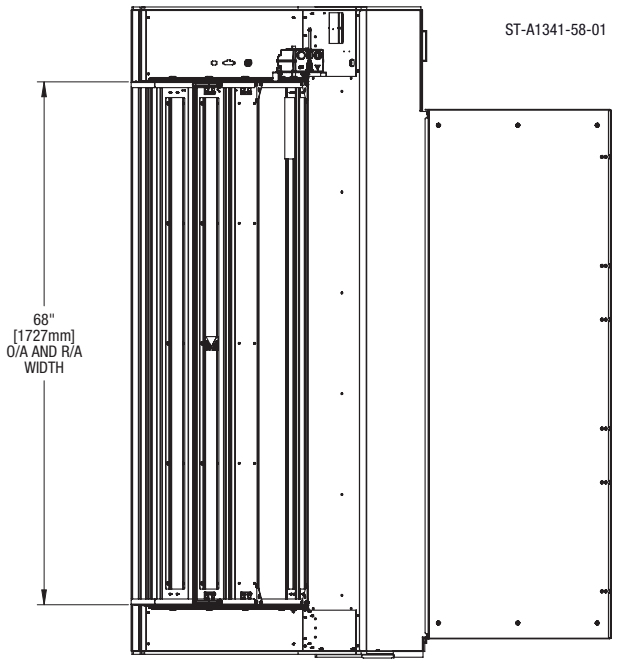
[ ] Designates Metric Conversions

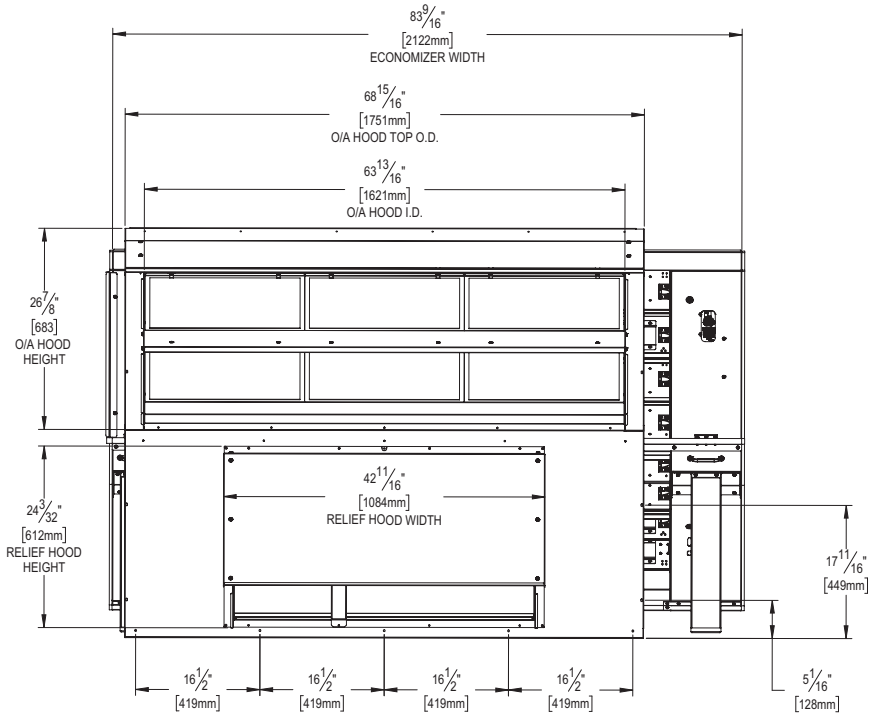
NON-DDC ECONOMIZER WITH SINGLE ENTHALPY (DOWNFLOW) MICROMETL ECONOMIZER WITH SIEMENS CONTROLS

Factory or Field-Installed

RXRD-11MGDAM3—Single Enthalpy (Outdoor)
PD555460—Dual Enthalpy, Temperature and Humidity Sensor (for Siemens Controller)
RXRX-AR02—Optional Wall-Mounted CO_2 Sensor

- California Energy Commission (CEC) Title 24 Listed
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Slip-In Design for Easy Installation
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO_2 Input Sensor Option
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Downflow Duct Application
- Field-Installed Power Exhaust Option
- Prewired for Smoke Detector
- If connected to a Building Automation System (BAS), all economizer functions can be viewed on the (BAS) or 16 x 2 LCD screen
- If connected to thermostat, all economizer functions can be viewed on 16 x 2 LCD screen
- Siemens WiFi Programming Stick (PD555462) Option





ST-A1341-60-01

[ ] Designates Metric Conversions

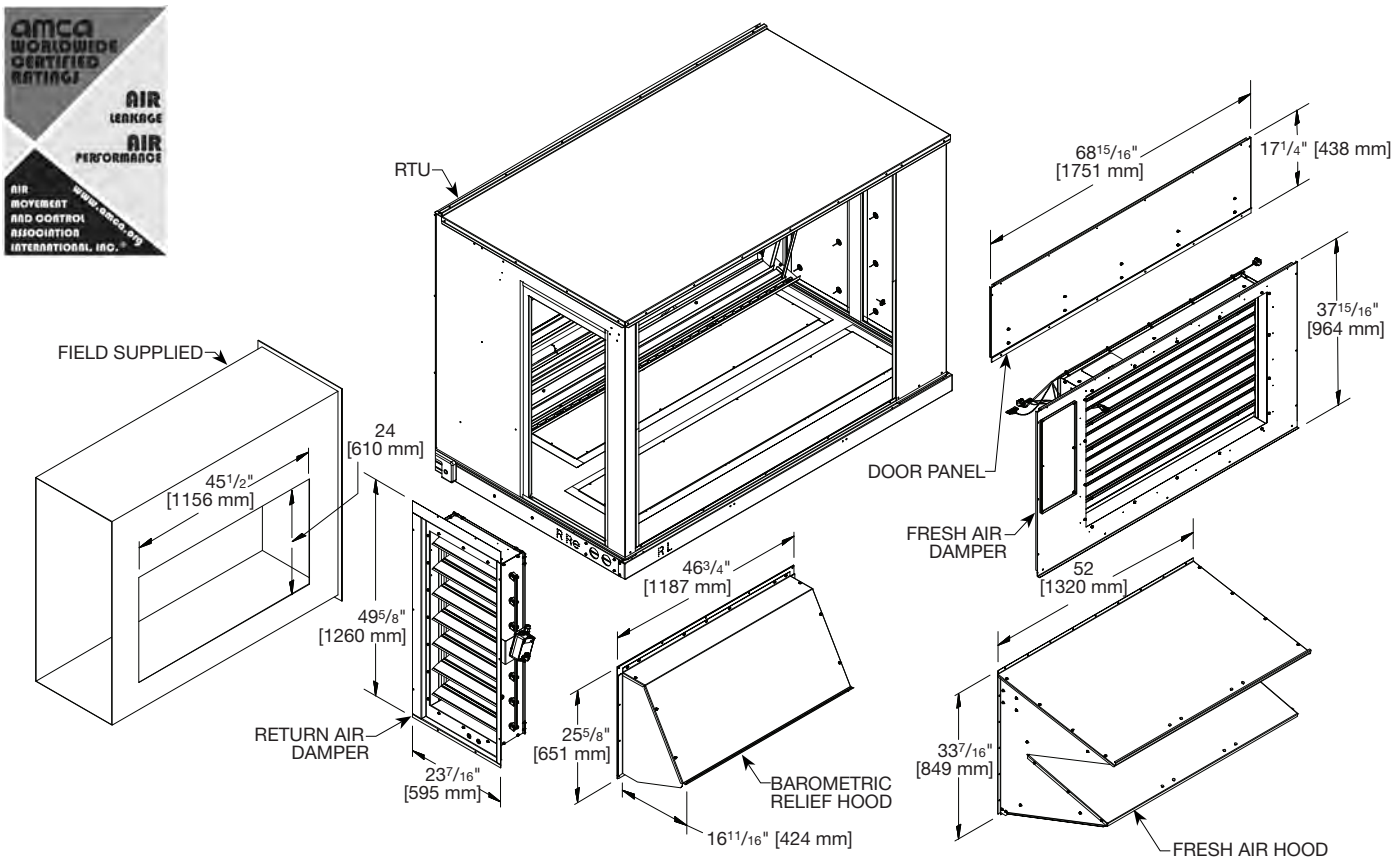
NON-DDC ECONOMIZER WITH SINGLE ENTHALPY (DOWNFLOW) RRS ECONOMIZER WITH SIEMENS CONTROLLER

Factory or Field-Installed

RXRD-51MGDAM3—Single Enthalpy (Outdoor)
PD555460—Dual Enthalpy, Temperature and Humidity Sensor (for Siemens Controller)
RXRX-AR02—Optional Wall-Mounted CO_2 Sensor

These ultra-low leak economizer dampers meet the following minimum construction standards:

1. Frame shall be 14 to 24 gauge galvanized steel channel.
2. Damper blades are galvanized steel airfoil shaped, double skin construction of 14 gauge [2.0] equivalent thickness, 6" [152 mm] wide. Parallel action.
3. Blade edge seals shall be Ruskiprene™ type or equivalent suitable for -72°F [-60°C] to +275°F [+135°C] mechanically locked into the blade edge. Adhesive or clip-on type seals are unacceptable.
4. Jamb seals shall be flexible metal, compression type to prevent leakage between blade end and damper frame. Blade end overlapping frame is unacceptable.
5. Bearings shall be stainless steel or nylon bushing.
6. Axles shall be hexagonal positively locked into the damper blade.
7. Drive mechanism shall be concealed out of airstream to reduce pressure drop and noise.
8. Economizer damper is tested and rated based upon AMCA® Publication 500-D.
9. Controls feature the Siemens controller with JCI 24v actuator. Controls capable of Economizer Fault Detection and Diagnostics for code compliance.
10. Damper shall meet the leakage requirements of the International Energy Conservation Code by leaking less than 3 CFM/sq. ft. at 1" of static pressure and shall be AMCA licensed as a class 1A damper. Complies with reliability and performance requirements as specified by the California Energy Commission's Title 24 Standard and ASHRAE 90.1 2022. Economizer dampers shall be Ruskin Rooftop Systems ECD60 model.
11. Can be converted to DDC operation with the Economizer Universal DDC Interface Kit.



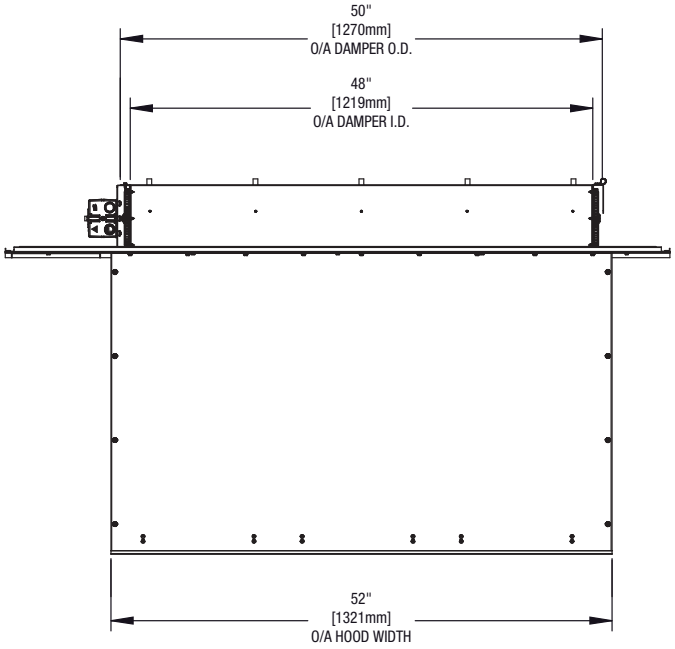
[ ] Designates Metric Conversions

NON-DDC ECONOMIZER WITH SINGLE ENTHALPY (HORIZONTAL) MICROMETL ECONOMIZER WITH SIEMENS CONTROLS

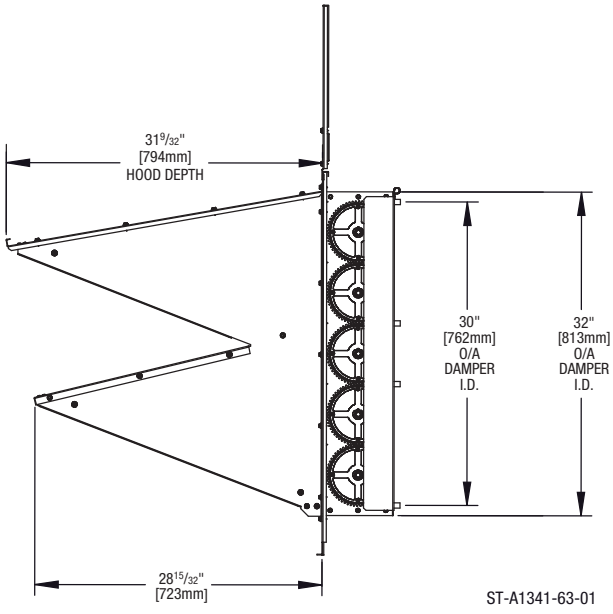
Field-Installed Only

RXRD-11MGHAM3—Single Enthalpy (Outdoor)
PD555460—Dual Enthalpy, Temperature and Humidity Sensor (for Siemens Controller)
RXRX-AR02—Optional Wall-Mounted CO_2 Sensor

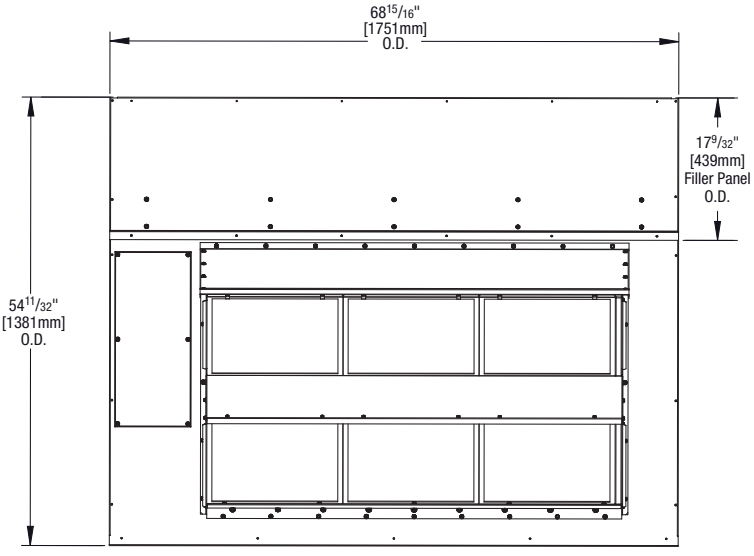
- California Energy Commission (CEC) Title 24 Listed
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Slip-In Design for Easy Installation
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO_2 Input Sensor Option
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Horizontal Duct Application
- Field-Installed Power Exhaust Option
- Prewired for Smoke Detector
- If connected to a Building Automation System (BAS), all economizer functions can be viewed on the (BAS) or 16 x 2 LCD screen
- If connected to thermostat, all economizer functions can be viewed on 16 x 2 LCD screen
- Siemens WiFi Programming Stick (PD555462) Option



ST-A1341-61-01



ST-A1341-63-01



ST-A1341-62-01

[ ] Designates Metric Conversions

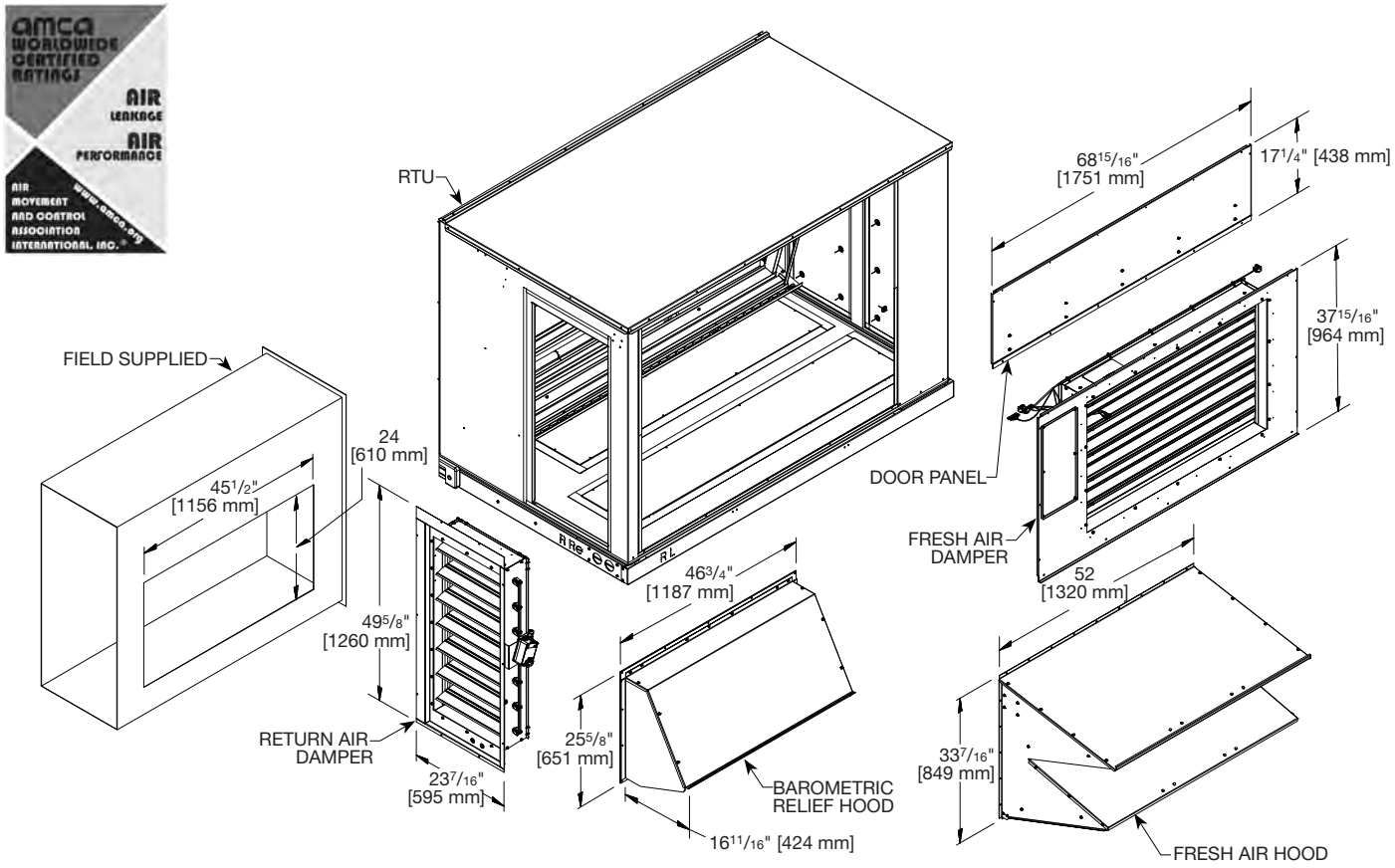
NON-DDC ECONOMIZER WITH SINGLE ENTHALPY (HORIZONTAL) RRS ECONOMIZER WITH SIEMENS CONTROLLER

Field-Installed Only

RXRD-51MGHAM3—Single Enthalpy (Outdoor)
PD555460—Dual Enthalpy, Temperature and Humidity Sensor (for Siemens Controller)
RXRX-AR02—Optional Wall-Mounted CO_2 Sensor

These ultra-low leak economizer dampers meet the following minimum construction standards:

1. Frame shall be 14 to 24 gauge galvanized steel channel.
2. Damper blades are galvanized steel airfoil shaped, double skin construction of 14 gauge [2.0] equivalent thickness, 6" [152 mm] wide. Parallel action.
3. Blade edge seals shall be Ruskiprene type or equivalent suitable for -72°F [-60°C] to +275°F [+135°C] mechanically locked into the blade edge. Adhesive or clip-on type seals are unacceptable.
4. Jamb seals shall be flexible metal, compression type to prevent leakage between blade end and damper frame. Blade end overlapping frame is unacceptable.
5. Bearings shall be stainless steel or nylon bushing.
6. Axles shall be hexagonal positively locked into the damper blade.
7. Drive mechanism shall be concealed out of airstream to reduce pressure drop and noise.
8. Economizer damper is tested and rated based upon AMCA Publication 500-D.
9. Controls feature the Siemens controller with JCI 24v actuator. Controls capable of Economizer Fault Detection and Diagnostics for code compliance.
10. Damper shall meet the leakage requirements of the International Energy Conservation Code by leaking less than 3 CFM/sq. ft. at 1" of static pressure and shall be AMCA licensed as a class 1A damper. Complies with reliability and performance requirements as specified by the California Energy Commission's Title 24 Standard and ASHRAE 90.1 2022. Economizer dampers shall be Ruskin Rooftop Systems ECD60 model.
11. Can be converted to DDC operation with the Economizer Universal DDC Interface Kit.



[ ] Designates Metric Conversions

ECONOMIZER UNIVERSAL DDC INTERFACE KIT

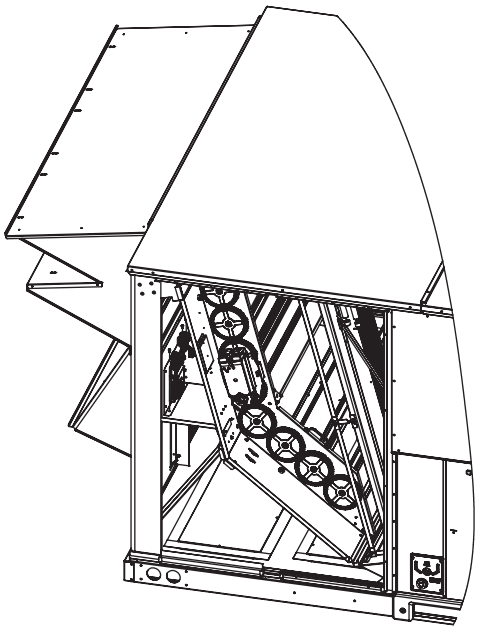
Available Factory or Field-Installed

RXRX-DDC01

- Allows any Non-DDC Economizer to be used with a ClearControl DDC models
- Mounts on the Economizer
- Provides Mounting location for Economizer Controller
- Provides wire management for excess wire

NOTE: Older DDC models, prior to A2L may require a field update to the ClearControl software. The minimum version required is 3.15. A2L Models will come with a software 4.0 of higher.

NOTE: Drawings shown here may not be an exact representation of every economizer. DDC Interface Kit Location may vary.



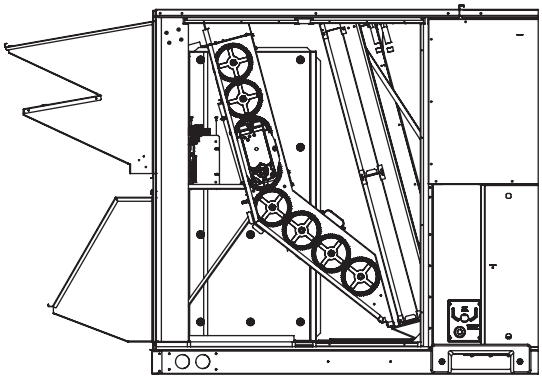
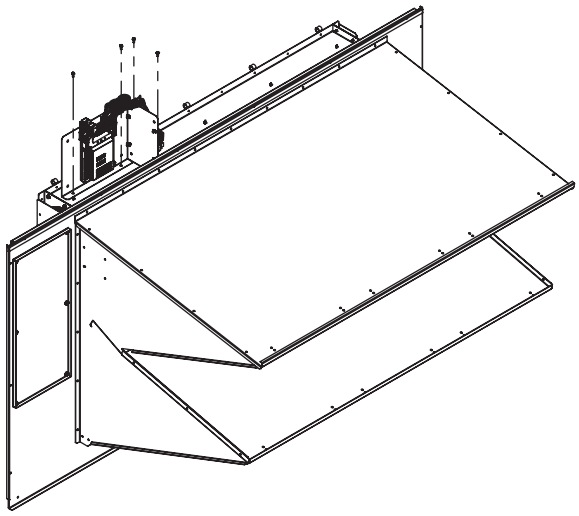


Illustration
ST-A1365-18-00



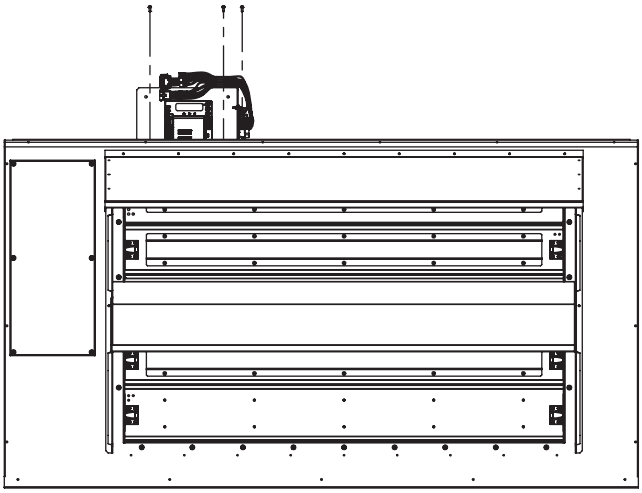


Illustration
ST-A1365-19-00

POWER EXHAUST KIT, CONVERTIBLE (MICROMETL)

RXRX-CGF01*

***Voltage Code: C, D, or Y**

- Convertible between vertical and horizontal airflow
- Compatible with all G-cabinet economizers

VERTICAL AIRFLOW INSTALLATION

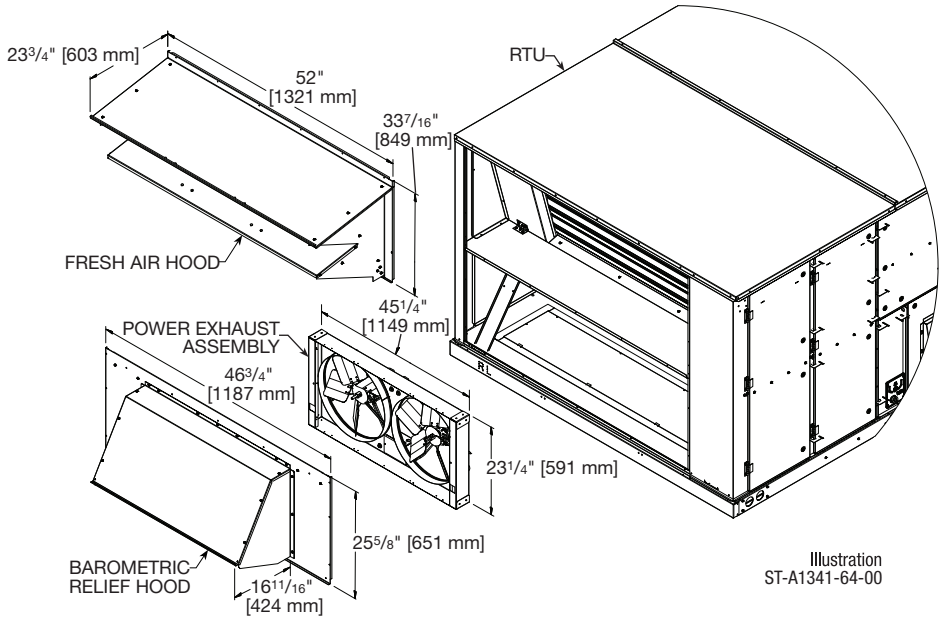


Illustration ST-A1341-64-00

HORIZONTAL AIRFLOW INSTALLATION

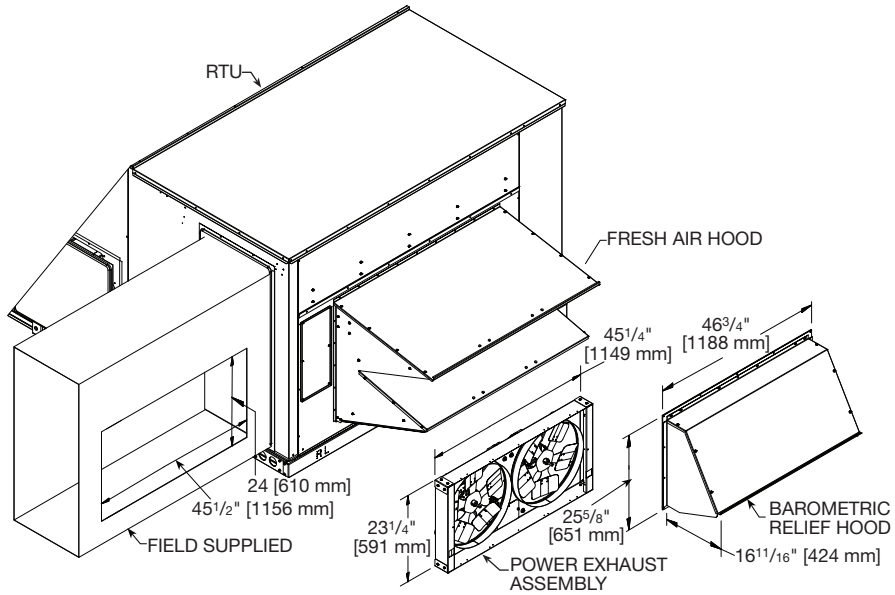


Illustration ST-A1341-65-00

Model No.	No. of Fans	Volt	Phase	HP (ea.)	FLA (ea.)
RXRX-CGF01C	2	208/230	1	0.50	1.55
RXRX-CGF01D	2	460	3	0.50	0.51
RXRX-CGF01Y*	2	575	1	0.50	0.62

*Use step down transformer from 575V to 208/230V.

[ ] Designates Metric Conversions

POWER EXHAUST KIT, CONVERTIBLE (RRS)

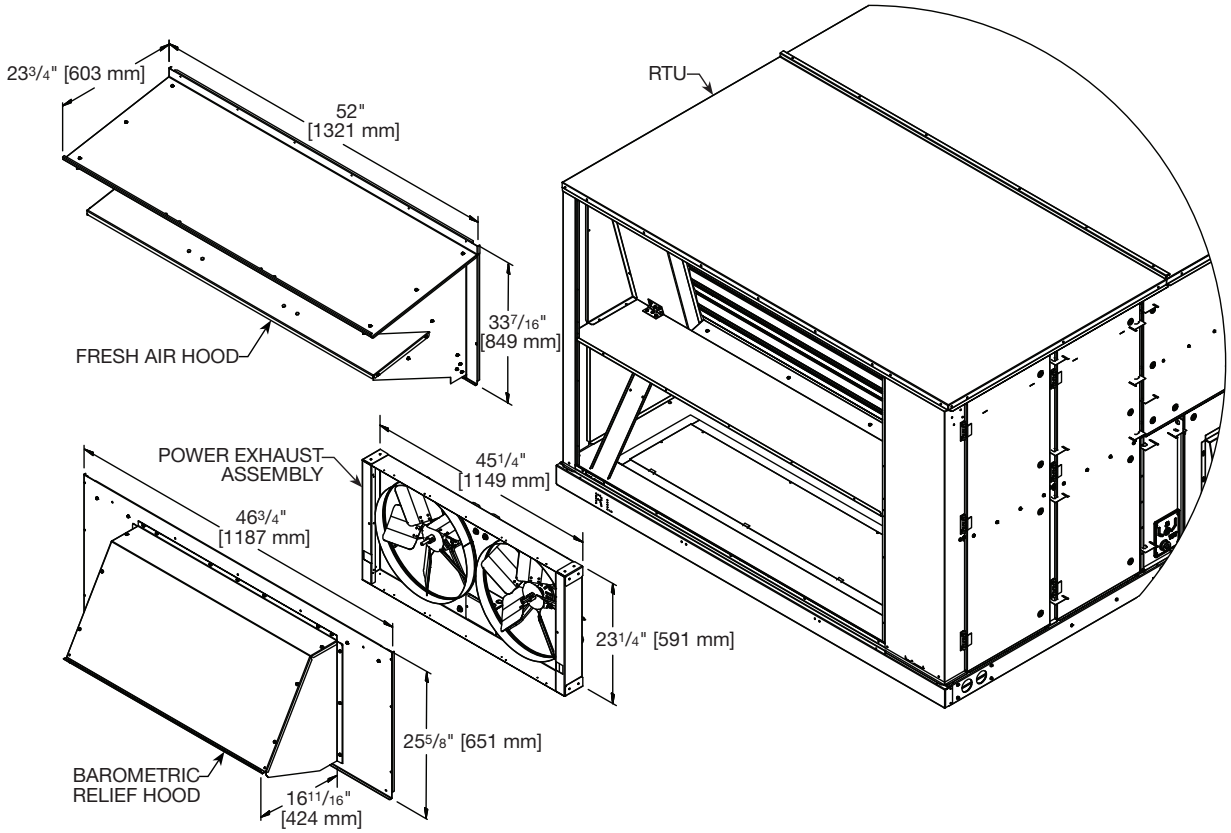
RXRX-RGF01*

***Voltage Code: C, D, or Y**

- Shipped completely assembled
- All wiring from control box to economizer is supplied
- Color coordinated with the unit
- Fully insulated with 1" 1.5 lb. fiberglass insulation
- Motors are factory wired and tested
- **Economizer, Fresh Air Hood and Barometric Relief Hood Sold Separately**

VERTICAL AIRFLOW INSTALLATION





Model No.	No. of Fans	Volt	Phase	HP (ea.)	CFM [L/s]*	RPM	FLA (ea.)	LRA (ea.)
RXRX-RGF01C	2	208/230	1	0.75	4013 [1893]	1050	5.00	5.9
RXRX-RGF01D	2	460	1	0.75	4013 [1893]	1050	2.20	3.3
RXRX-RGF01Y	2	575	1	0.75	4013 [1893]	1050	1.50	2.5

*CFM is per fan at 0.1" w.c. external static pressure.

[ ] Designates Metric Conversions

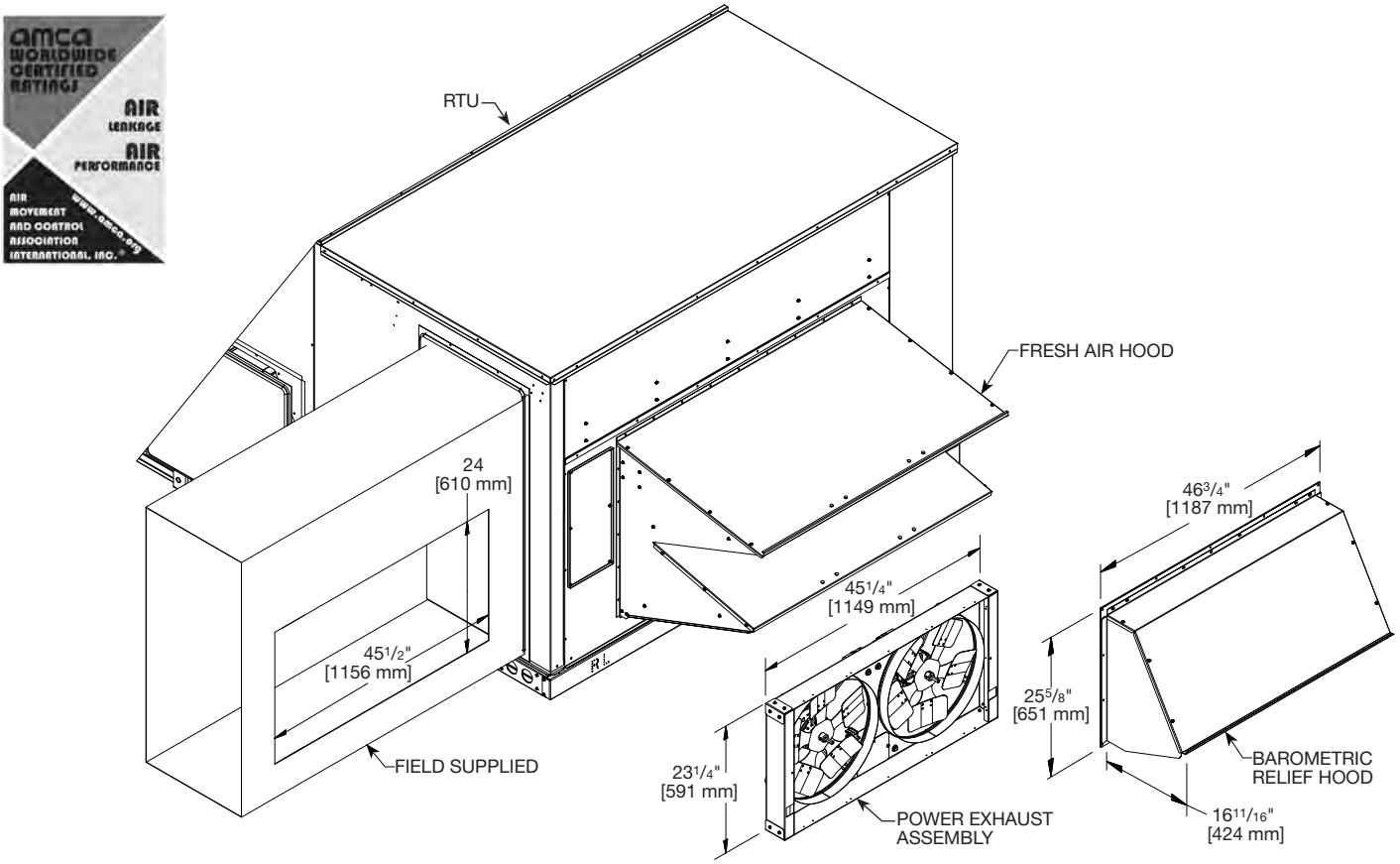
POWER EXHAUST KIT, CONVERTIBLE (RRS)

RXRX-RGF01*

***Voltage Code: C, D, or Y**

- Shipped completely assembled
- All wiring from control box to economizer is supplied
- Color coordinated with the unit
- Fully insulated with 1" 1.5 lb. fiberglass insulation
- Motors are factory wired and tested
- **Economizer, Fresh Air Hood and Barometric Relief Hood Sold Separately**

HORIZONTAL AIRFLOW INSTALLATION



Model No.	No. of Fans	Volt	Phase	HP (ea.)	CFM [L/s]*	RPM	FLA (ea.)	LRA (ea.)
RXRX-RGF01C	2	208/230	1	0.75	4013 [1893]	1050	5.00	5.9
RXRX-RGF01D	2	460	1	0.75	4013 [1893]	1050	2.20	3.3
RXRX-RGF01Y	2	575	1	0.75	4013 [1893]	1050	1.50	2.5

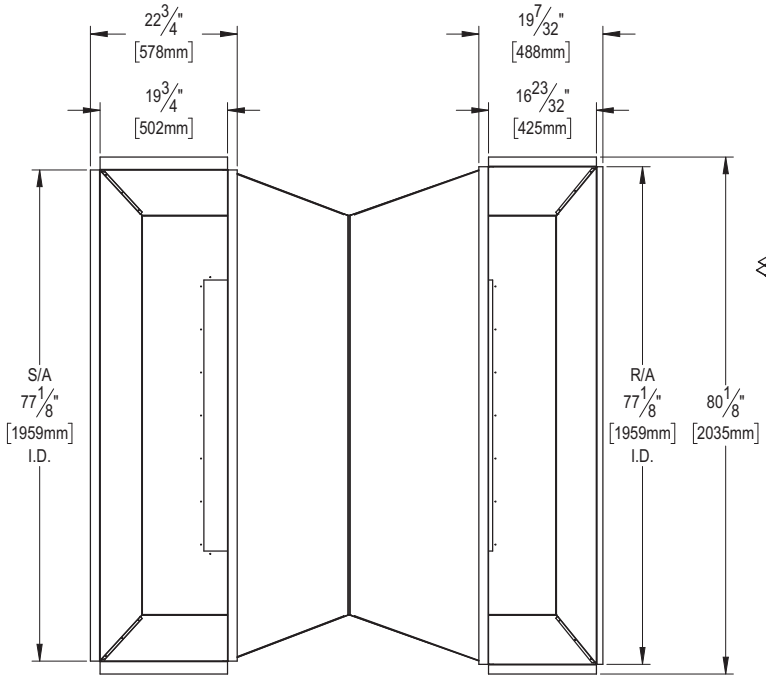
*CFM is per fan at 0.1" w.c. external static pressure.

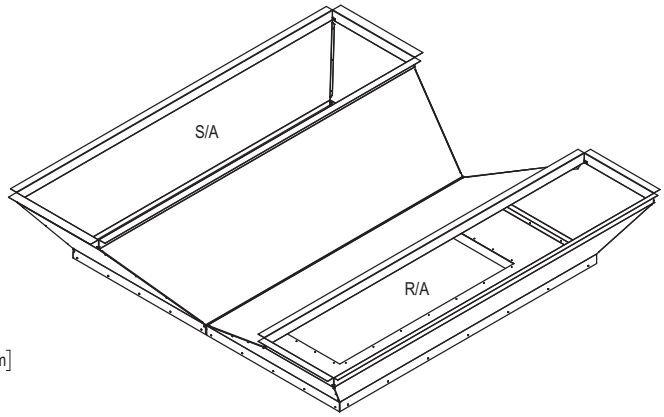
[ ] Designates Metric Conversions

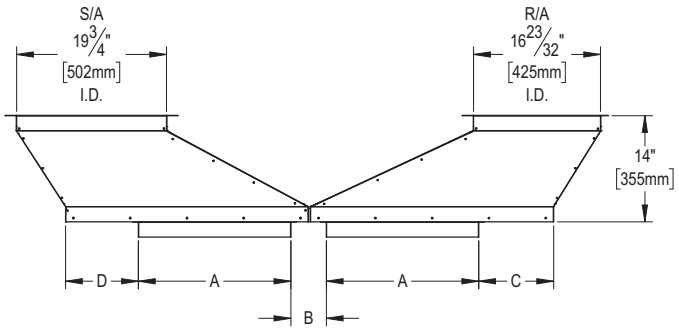
DOWNFLOW CONCENTRIC TRANSITION DRAWINGS

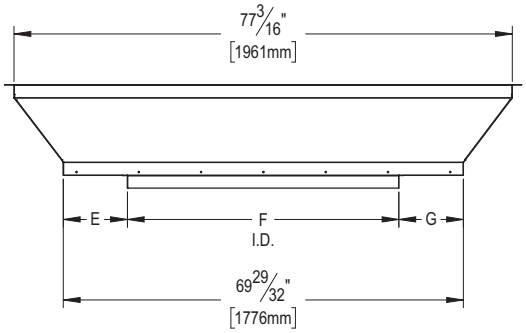
RXMC-GG01—Concentric Adapter/Transition (15 & 17.5 Ton)

- Used with Concentric Diffusers RXRN-AEF2042 and RXRN-AED2042









ST-A1328-07-01

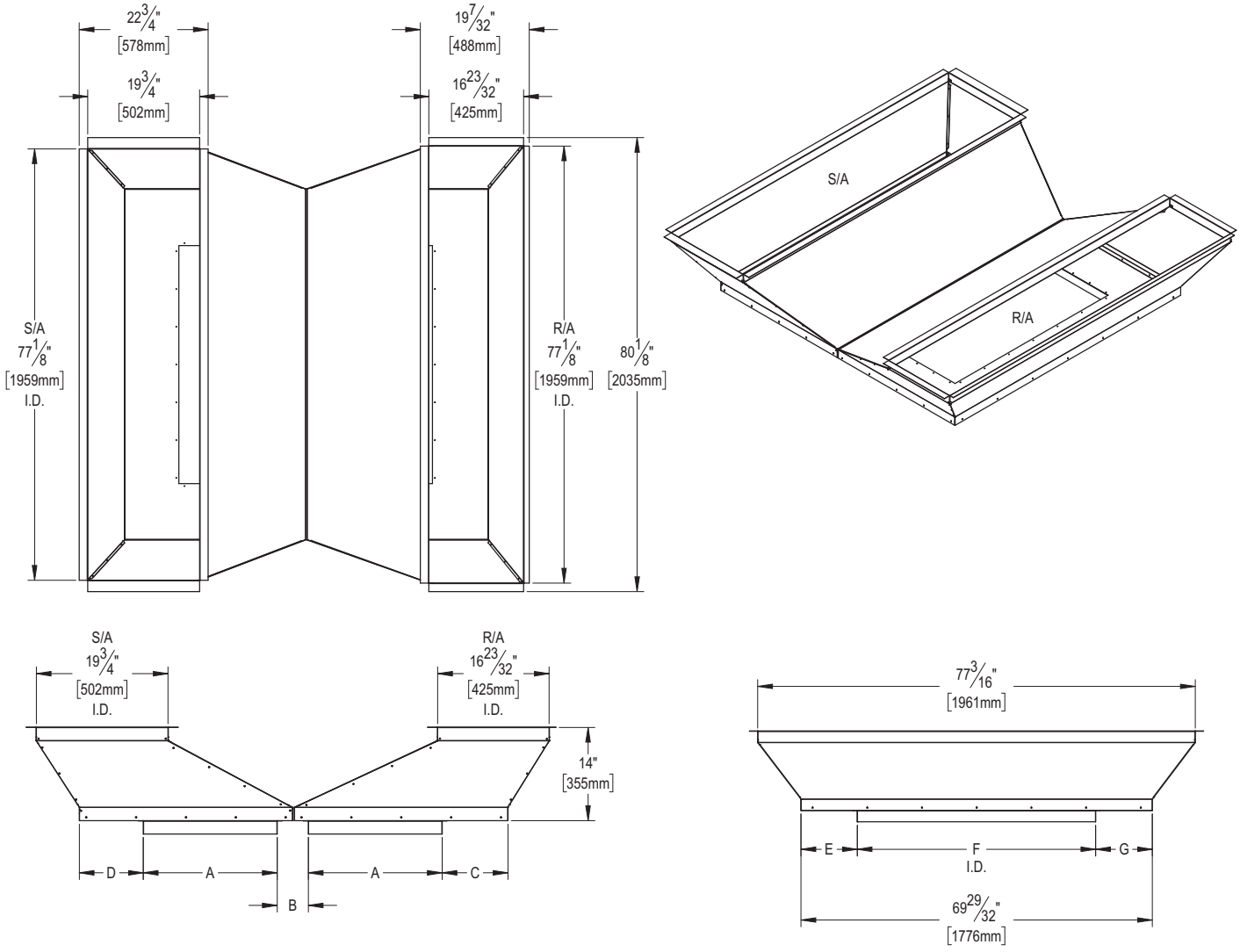
CONCENTRIC ADAPTER/ TRANSITION MODEL	DIMENSION	
RXMC-GG03	A	28.000"
	B	2.500"
	C	2.987"
	D	2.686"
	E	4.964"
	F	52.000"
	G	5.037"

[ ] Designates Metric Conversions

DOWNFLOW CONCENTRIC TRANSITION DRAWINGS

RXMC-GG02—Concentric Adapter/Transition (20 Ton)

- Used with Concentric Diffusers RXRN-AEF2348 and RXRN-AED2348



ST-A1328-07-01

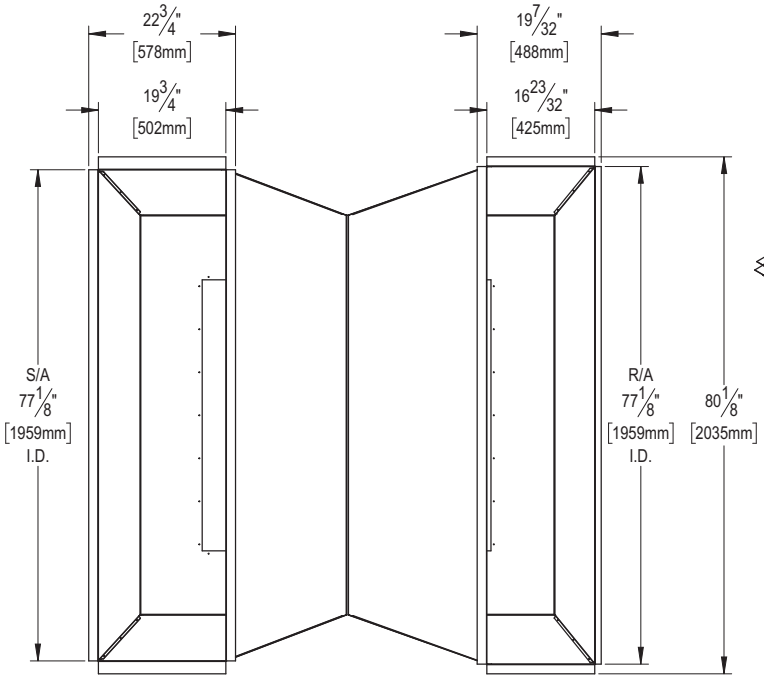
CONCENTRIC ADAPTER/ TRANSITION MODEL	DIMENSION	
RXMC-GG02	A	23.000"
	B	3.126"
	C	7.674"
	D	7.373"
	E	6.963"
	F	48.000"
	G	7.038"

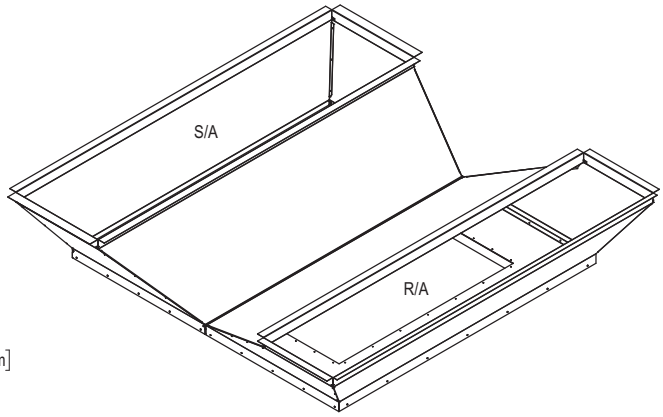
[ ] Designates Metric Conversions

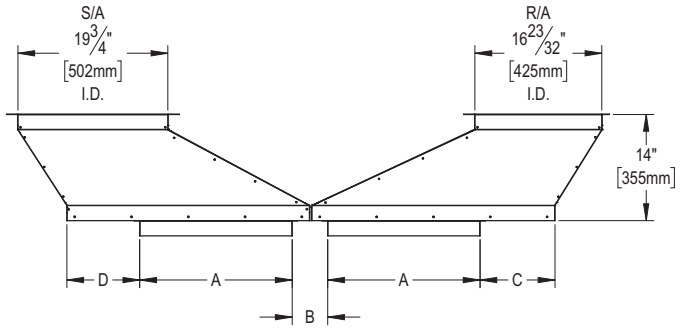
DOWNFLOW CONCENTRIC TRANSITION DRAWINGS

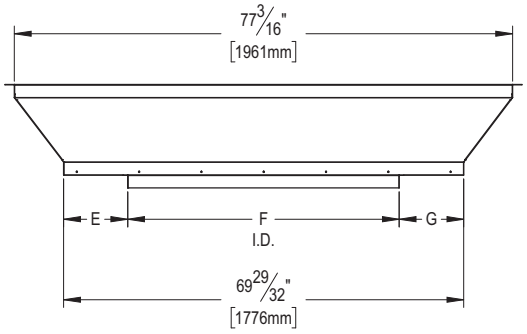
RXMC-GG03—Concentric Adapter/Transition (25 Ton)

- Used with Concentric Diffusers RXRN-AEF2852 and RXRN-AED2852









ST-A1328-07-01

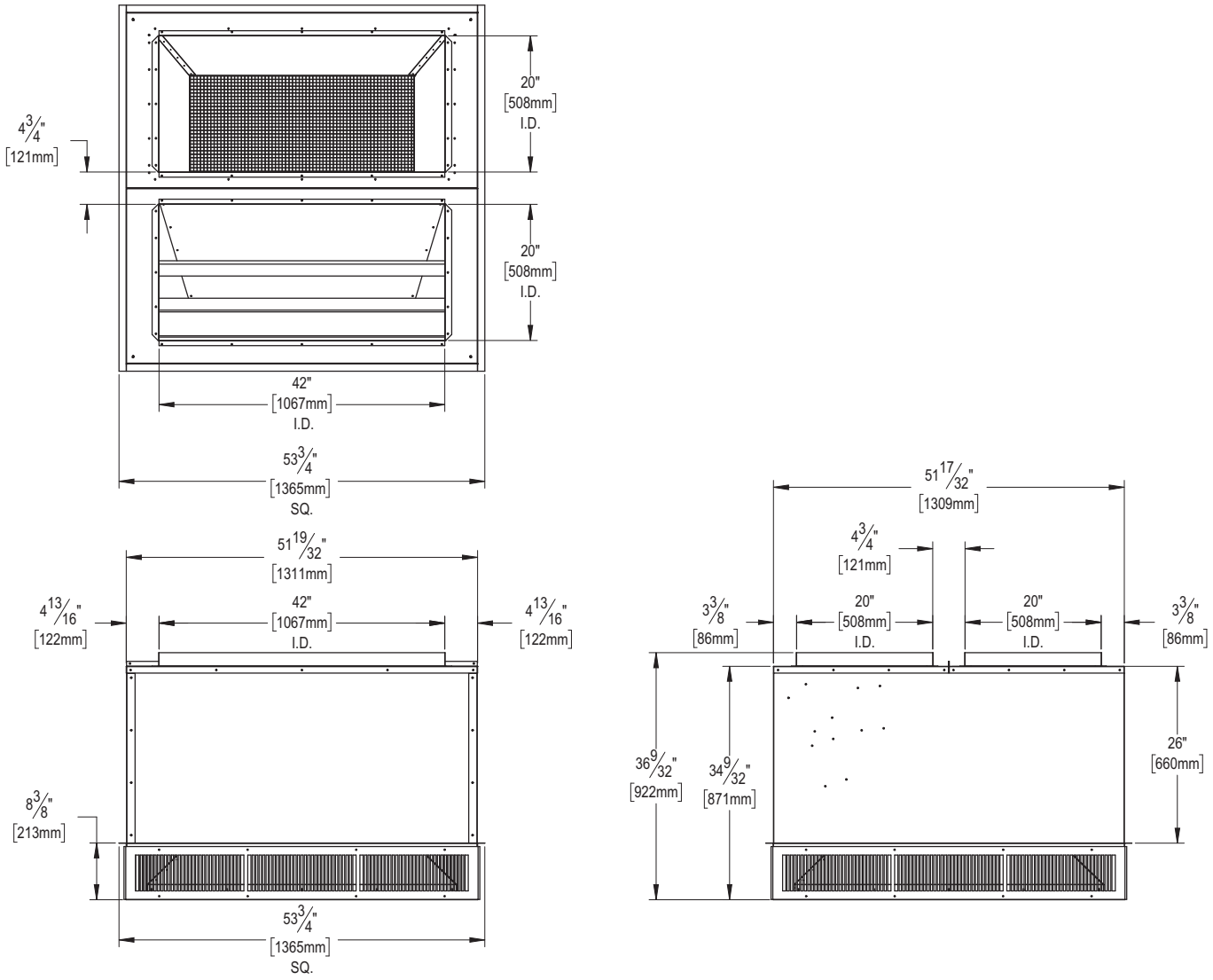
CONCENTRIC ADAPTER/ TRANSITION MODEL	DIMENSION	
RXMC-GG03	A	28.000"
	B	2.500"
	C	2.987"
	D	2.686"
	E	4.964"
	F	52.000"
	G	5.037"

[ ] Designates Metric Conversions

CONCENTRIC DIFFUSER 15 & 17.5 TON FLUSH 20" x 42" [508 x 1067 mm]

RXRN-AEF2042

For use with Concentric Adapter RXMC-GG01 and 20" x 42" [508 x 1067 mm] Supply and Return Ducts
- All aluminum diffuser with aluminum return air eggcrate
- Built-in anti-sweat gasket
- Molded fiberglass supports
- Built-in hanging supports
- Diffuser box constructed of sheet metal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner
- Double deflection diffuser with the blades secured by spring steel



ST-A1328-13-01

MODEL NO.	FLOW RATE CFM [L/s]	THROW FEET [m] [2, 3]	NECK VELOCITY FPM [m/s]	NOISE LEVEL [4, 5] [dbA]
RXRN-AEF2042	6,000 [2832]	16-32 [4.9-9.8]	743 [3.7]	37
	7,200 [3398]	22-44 [6.7-13.4]	891 [4.5]	47

NOTES: 1. All data is based on the air diffusion council guidelines.
2. Throw data is based on 75 FPM Terminal Velocities using Isothermal Air.
3. Throw is based on diffuser blades being directed in a straight pattern.
4. Actual noise levels may vary due to duct design and do not include transmitted unit noise.
5. Adequate duct attenuation must be provided to reduce sound output from unit.

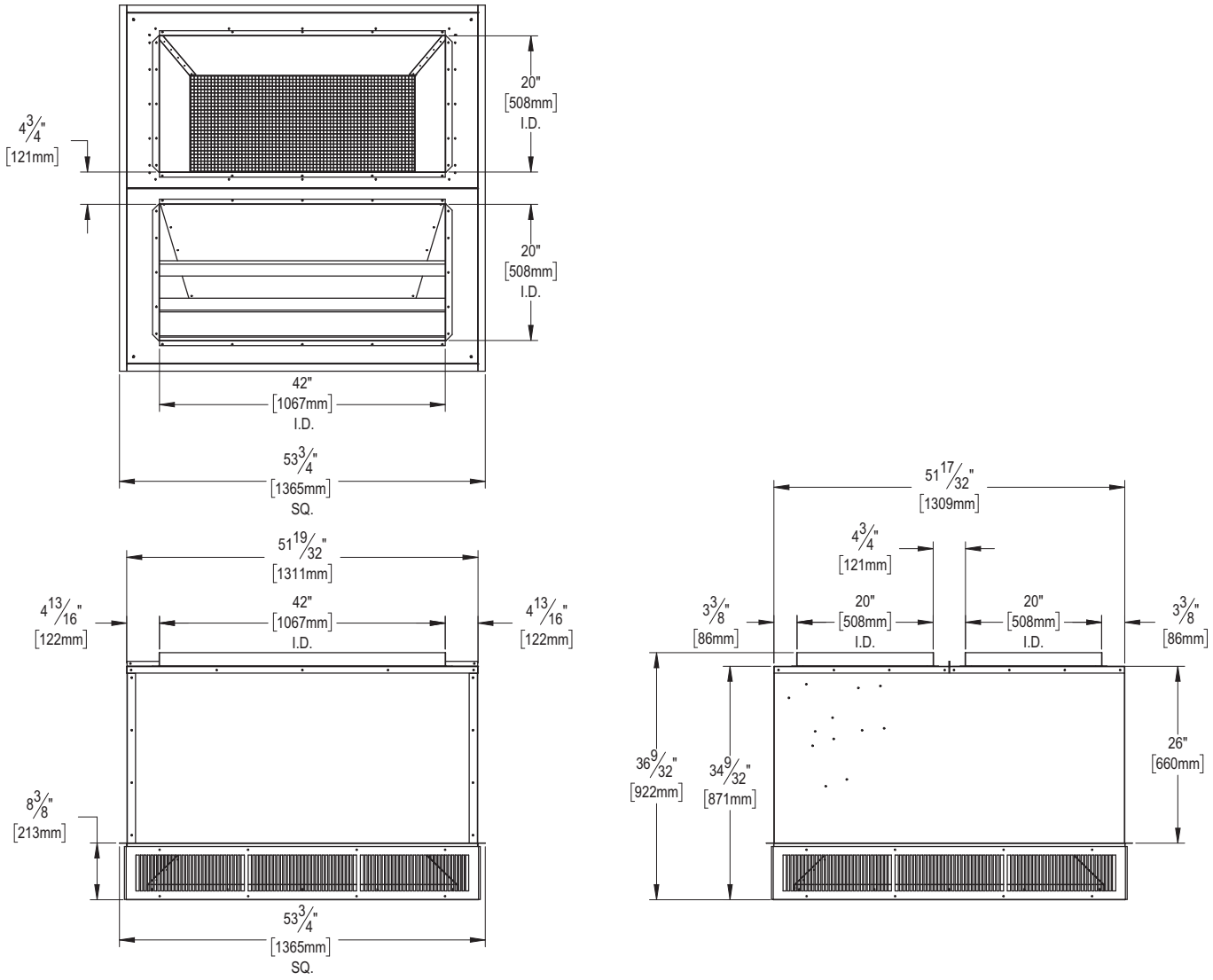
[ ] Designates Metric Conversions

CONCENTRIC DIFFUSER 20 TON FLUSH 23" x 48" [584 x 1219 mm]

RXRN-AEF2348

For use with Concentric Adapter RXMC-GG02 and 23" x 48" [584 x 1219 mm] Supply and Return Ducts

- All aluminum diffuser with aluminum return air eggcrate
- Built-in anti-sweat gasket
- Molded fiberglass supports
- Built-in hanging supports
- Diffuser box constructed of sheet metal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner
- Double deflection diffuser with the blades secured by spring steel



ST-A1328-13-01

MODEL NO.	FLOW RATE CFM [L/s]	THROW FEET [m] [2, 3]	NECK VELOCITY FPM [m/s]	NOISE LEVEL [4, 5] [dbA]
RXRN-AEF2348	7,200 [3398]	47-80 [14.3-24.4]	663 [3.3]	39
	8,000 [3776]	51-84 [15.5-25.6]	737 [3.7]	39

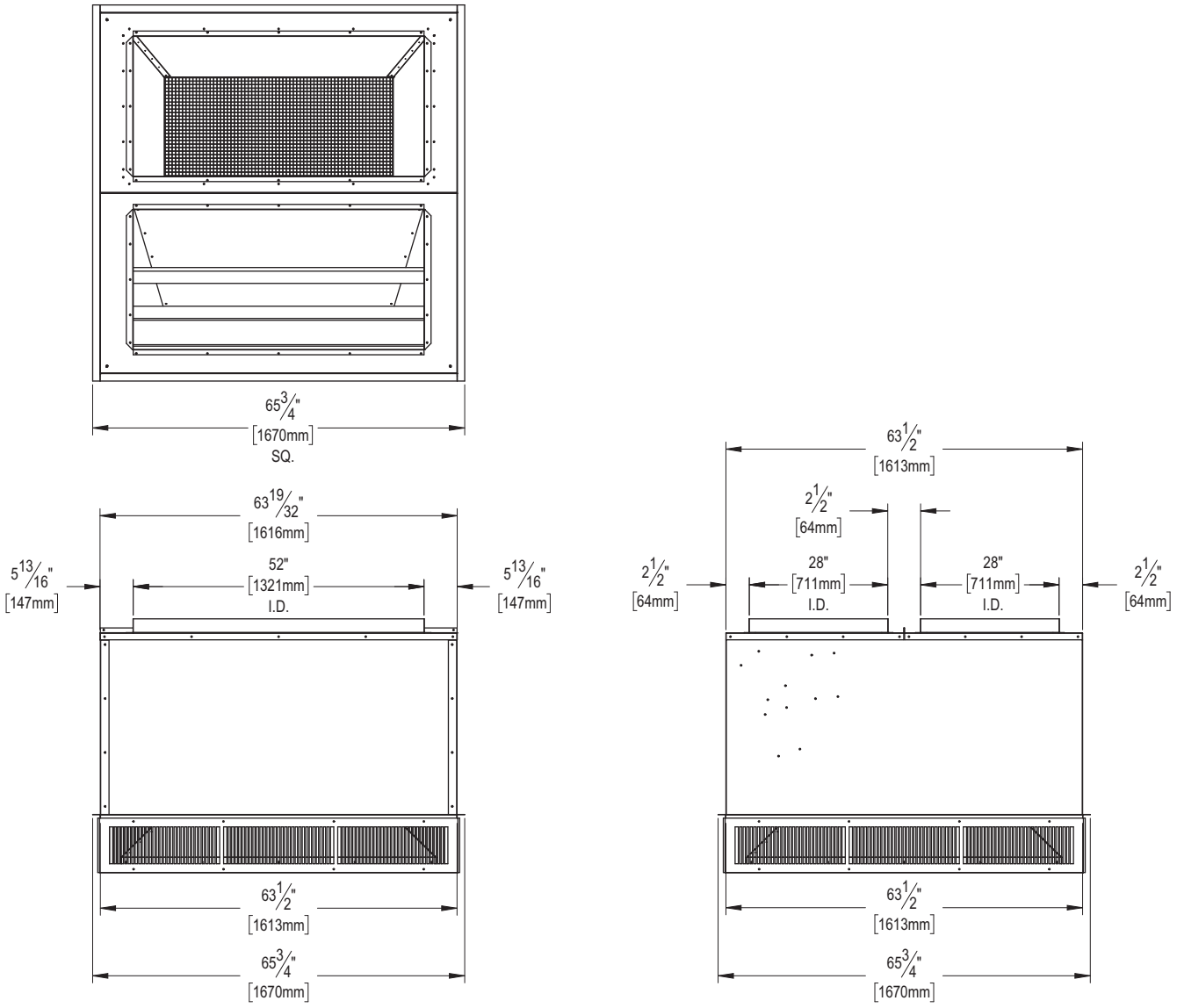
NOTES: 1. All data is based on the air diffusion council guidelines.
2. Throw data is based on 75 FPM Terminal Velocities using Isothermal Air.
3. Throw is based on diffuser blades being directed in a straight pattern.
4. Actual noise levels may vary due to duct design and do not include transmitted unit noise.
5. Adequate duct attenuation must be provided to reduce sound output from unit.

[ ] Designates Metric Conversions

CONCENTRIC DIFFUSER 25 TON FLUSH 28" x 52" [711 x 1321 mm]

RXRN-AEF2852

For use with Concentric Adapter RXMC-GG03 and 28" x 52" [711 x 1321 mm] Supply and Return Ducts
- All aluminum diffuser with aluminum return air eggcrate
- Built-in anti-sweat gasket
- Molded fiberglass supports
- Built-in hanging supports
- Diffuser box constructed of sheet metal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner
- Double deflection diffuser with the blades secured by spring steel



ST-A1328-12-01

MODEL NO.	FLOW RATE CFM [L/s]	THROW FEET [m] [2, 3]	NECK VELOCITY FPM [m/s]	NOISE LEVEL [4, 5] [dbA]
RXRN-AEF2852	10,000 [4720]	21-45 [6.4-13.7]	954 [4.8]	41

NOTES: 1. All data is based on the air diffusion council guidelines.
2. Throw data is based on 75 FPM Terminal Velocities using Isothermal Air.
3. Throw is based on diffuser blades being directed in a straight pattern.
4. Actual noise levels may vary due to duct design and do not include transmitted unit noise.
5. Adequate duct attenuation must be provided to reduce sound output from unit.

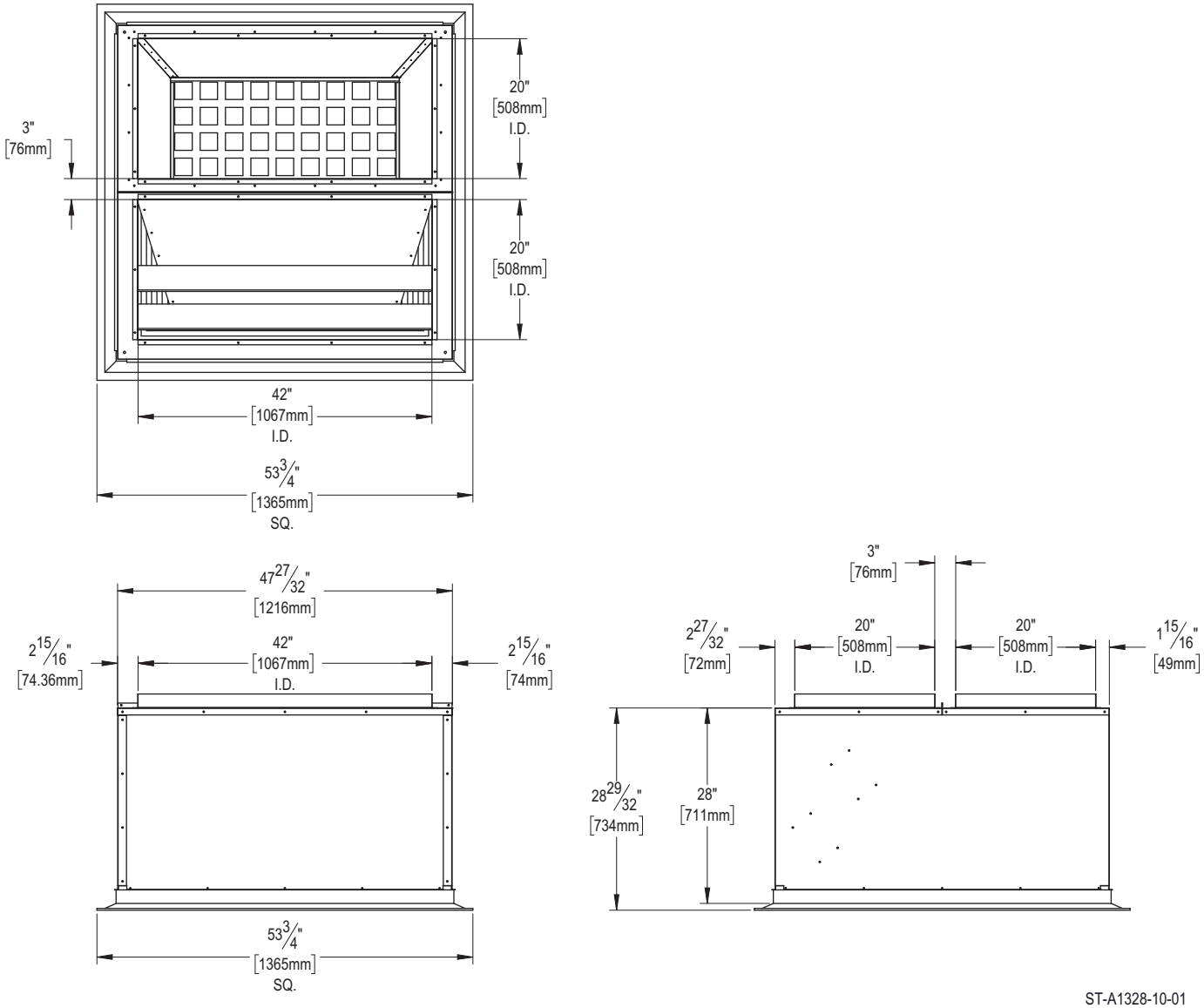
[ ] Designates Metric Conversions

CONCENTRIC DIFFUSER 15 & 17.5 TON DROP
20" x 42" [508 x 1067 mm]

RXRN-AED2042

For use with Concentric Adapter RXMC-GG01 and 20" x 42" [508 x 1067 mm] Supply and Return Ducts

- All aluminum diffuser with aluminum return air eggcrate
- Built-in anti-sweat gasket
- Molded fiberglass supports
- Built-in hanging supports
- Diffuser box constructed of sheet metal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner
- Double deflection diffuser with the blades secured by spring steel



ST-A1328-10-01

MODEL NO.	FLOW RATE CFM [L/s]	THROW FEET [m] [2, 3]	NECK VELOCITY FPM [m/s]	NOISE LEVEL [4, 5] [dbA]
RXRN-AED2042	6,000 [2832]	40-70 [12.2-21.3]	843 [4.2]	37
	7,200 [3398]	46-79 [14.0-24.1]	1011 [5.1]	47

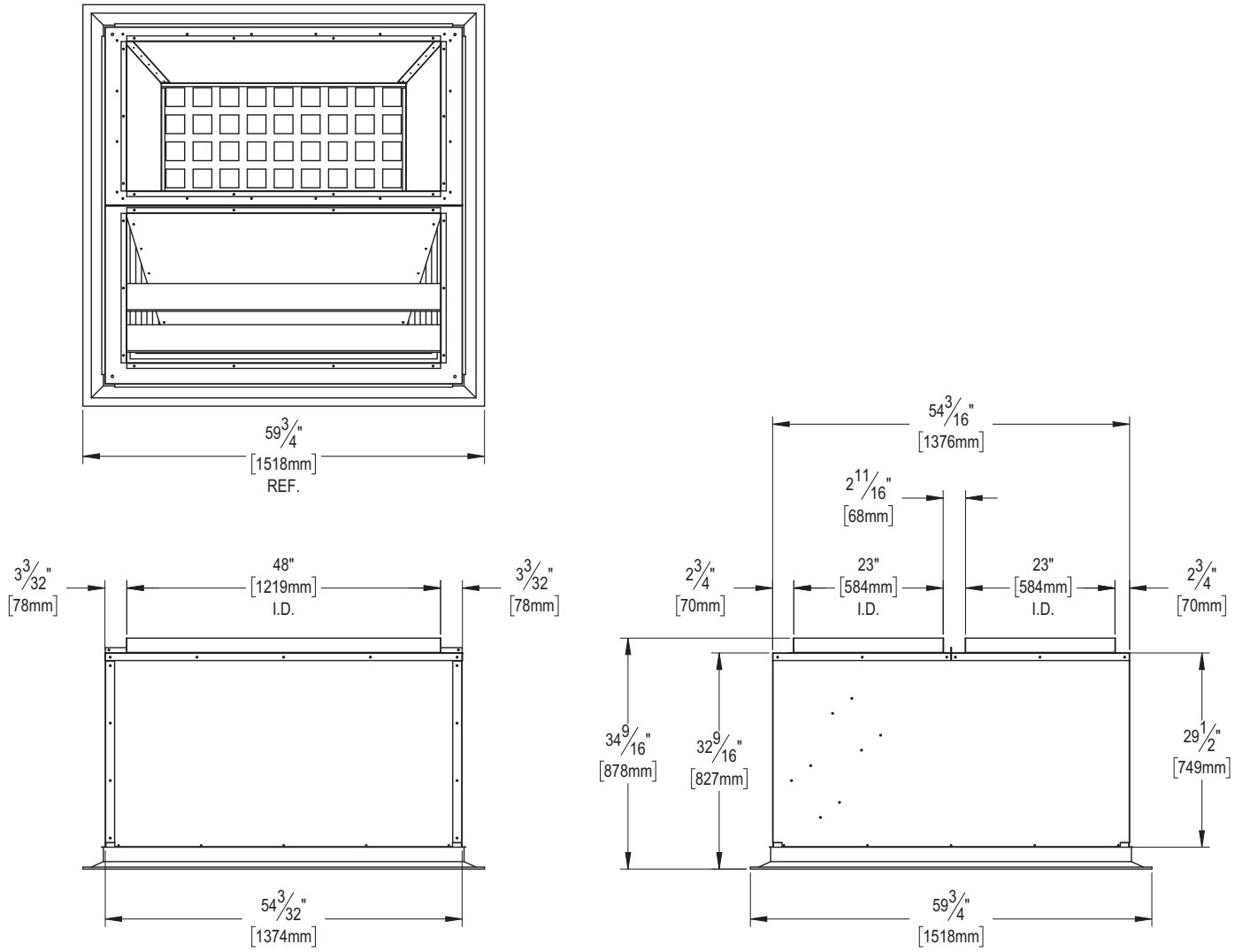
NOTES: 1. All data is based on the air diffusion council guidelines.
2. Throw data is based on 75 FPM Terminal Velocities using Isothermal Air.
3. Throw is based on diffuser blades being directed in a straight pattern.
4. Actual noise levels may vary due to duct design and do not include transmitted unit noise.
5. Adequate duct attenuation must be provided to reduce sound output from unit.

[ ] Designates Metric Conversions

CONCENTRIC DIFFUSER 20 TON DROP 23" x 48" [584 x 1219 mm]

RXRN-AED2348

For use with Concentric Adapter RXMC-GG02 and 23" x 48" [584 x 1219 mm] Supply and Return Ducts
- All aluminum diffuser with aluminum return air eggcrate
- Built-in anti-sweat gasket
- Molded fiberglass supports
- Built-in hanging supports
- Diffuser box constructed of sheet metal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner
- Double deflection diffuser with the blades secured by spring steel



ST-A1328-11-01

MODEL NO.	FLOW RATE CFM [L/s]	THROW FEET [m] [2, 3]	NECK VELOCITY FPM [m/s]	NOISE LEVEL [4, 5] [dbA]
RXRN-AED2348	7,200 [3398]	47-80 [14.3-24.4]	891 [4.5]	39
	8,000 [3776]	48-82 [14.6-25]	990 [5.0]	39

NOTES: 1. All data is based on the air diffusion council guidelines.
2. Throw data is based on 75 FPM Terminal Velocities using Isothermal Air.
3. Throw is based on diffuser blades being directed in a straight pattern.
4. Actual noise levels may vary due to duct design and do not include transmitted unit noise.
5. Adequate duct attenuation must be provided to reduce sound output from unit.

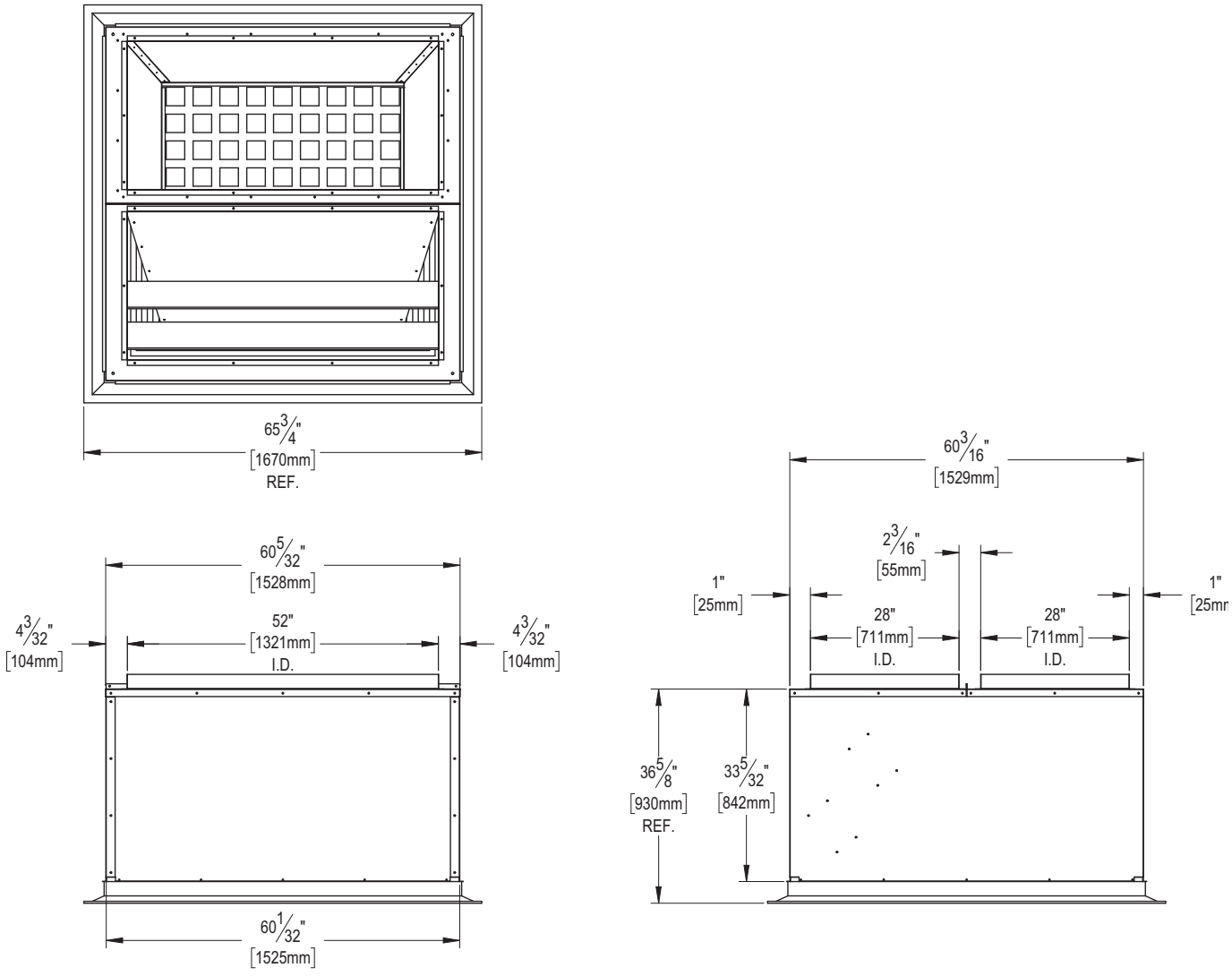
[ ] Designates Metric Conversions

CONCENTRIC DIFFUSER 25 TON DROP 28" x 52" [711 x 1321 mm]

RXRN-AED2852

For use with Concentric Adapter RXMC-GG03 and 28" x 52" [711 x 1321 mm] Supply and Return Ducts

- All aluminum diffuser with aluminum return air eggcrate
- Built-in anti-sweat gasket
- Molded fiberglass supports
- Built-in hanging supports
- Diffuser box constructed of sheet metal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner
- Double deflection diffuser with the blades secured by spring steel



ST-A1328-09-01

MODEL NO.	FLOW RATE CFM [L/s]	THROW FEET [m] [2, 3]	NECK VELOCITY FPM [m/s]	NOISE LEVEL [4, 5] [dbA]
RXRN-AED2852	10,000 [4720]	52-90 [15.8-27.4]	1115 [5.6]	41

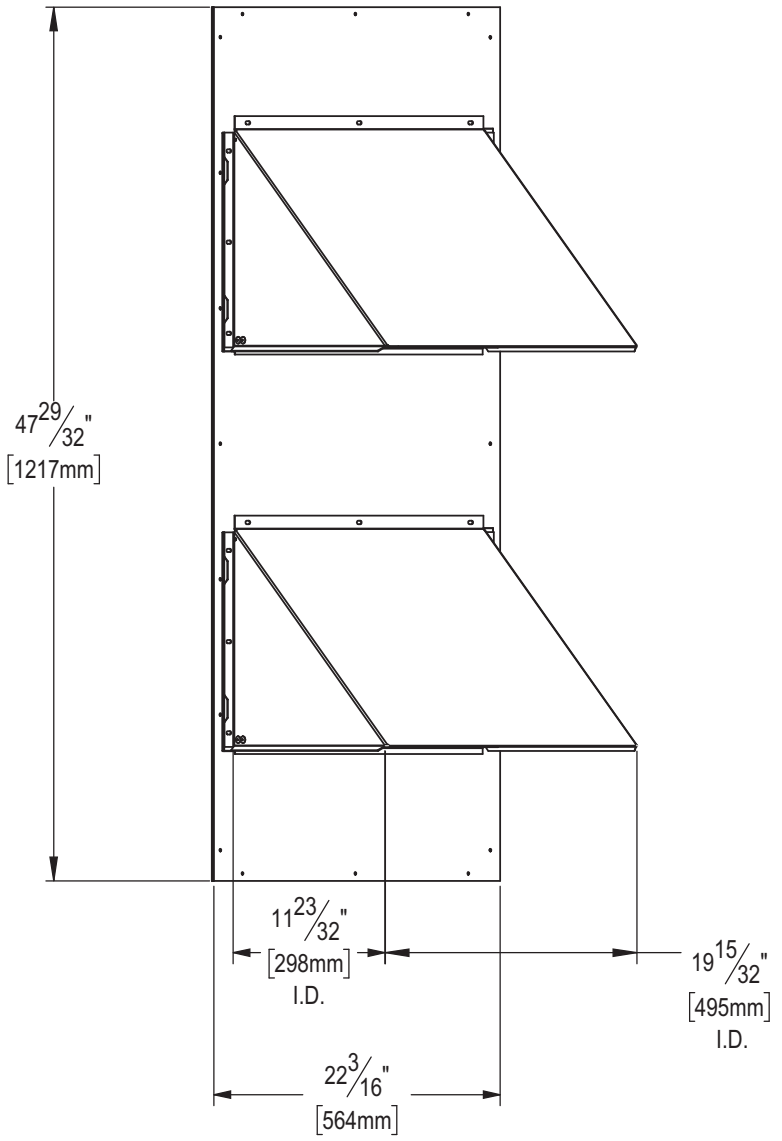
NOTES: 1. All data is based on the air diffusion council guidelines.
2. Throw data is based on 75 FPM Terminal Velocities using Isothermal Air.
3. Throw is based on diffuser blades being directed in a straight pattern.
4. Actual noise levels may vary due to duct design and do not include transmitted unit noise.
5. Adequate duct attenuation must be provided to reduce sound output from unit.

[ ] Designates Metric Conversions

FRESH AIR DAMPER

RXRF-AGA1—Fresh Air Damper, Manual

- For mounting instructions, see the accessory installation and operation manual



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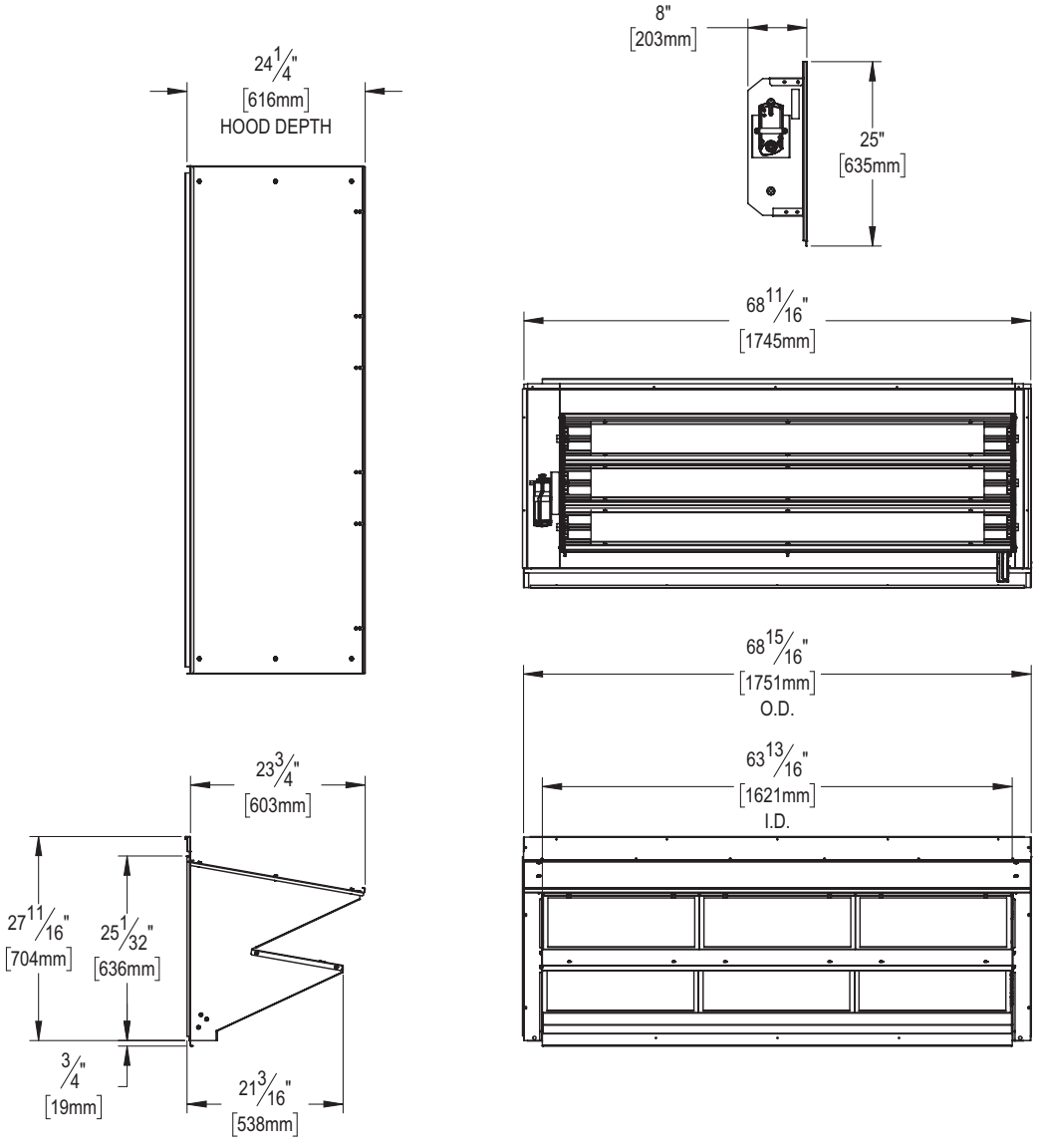
[ ] Designates Metric Conversions

FRESH AIR DAMPER (CONTINUED)

RXRF-AGB1—Fresh Air Damper, Motorized
RXRF-AGC1—Fresh Air Damper, Motorized (DDC)
(Modulating Motor Kit with position feedback for DDC Models)

- Features Siemens Controls
- Gear Driven Direct Drive
- Actuator Fully Modulating (0-100%)
- Low Leakage Dampers
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin and 4-pin Electrical Connections
- Pre-Configured—No Field Adjustments Necessary
- Addition of Dual Enthalpy Upgrade Kit allows limited economizer function
- CO_2 Sensor Input Available for Demand Control Ventilation (DCV)
- All DDC fresh air damper functions can be viewed at the RTU-C unit controller display

For mounting instructions, see the accessory installation and operation manual



ST-A1328-06-01

[ ] Designates Metric Conversions

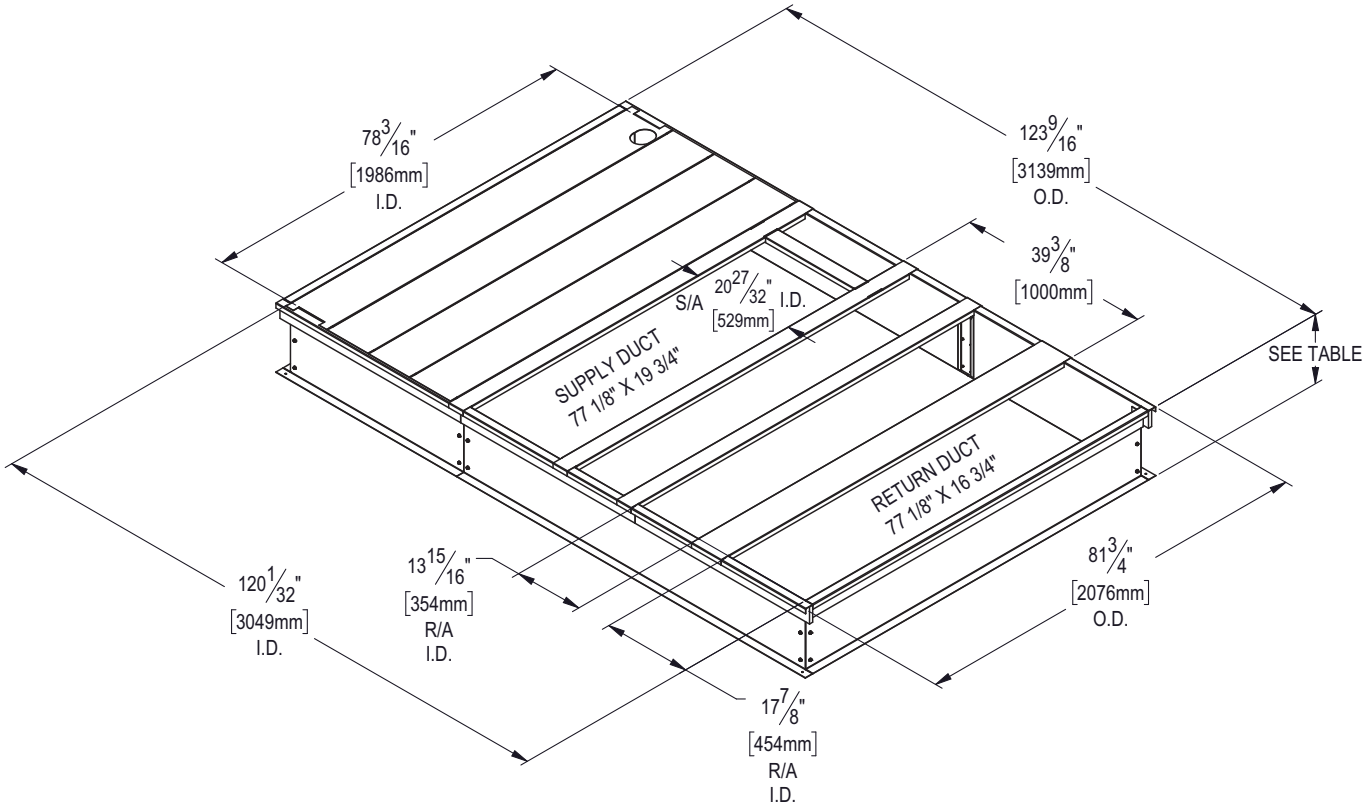
ROOFCURBS (Full Perimeter)

RXRX-DGC14—Roofcurb, 14"
RXRX-DGC18—Roofcurb, 18"
RXRX-DGC24—Roofcurb, 24"

- The roofcurb design can be utilized on all 15-25 ton RGEG models
- Three available heights (14", 18" and 24") for ALL models
- Quick assembly corners for simple and fast assembly
- Opening provided in bottom pan to match the "Thru the Curb" electrical, gas piping, condensate, connection opening provided on the unit base pan
- 1" [25 mm] x 4" [102 mm] Nailer provided
- Sealing gasket (40' [12.2 m]) provided with Roofcurb
- Packaged for easy field assembly

ROOFCURB ADAPTERS

RXRX-DGCAE
RXRX-DGCAZ—Roofcurb Adapter Z-Bracket
RXRX-DGCRC—Roofcurb—Restraint Clip



ST-A1328-04-01

VIEW	ROOF CURB	HEIGHT OF CURB
A	RXRX-DGC14	14.0
A	RXRX-DGC18	18.0
A	RXRX-DGC24	24.0

[ ] Designates Metric Conversions

COMMUNICATION CARDS



BACnet COMMUNICATION CARD RXRX-AY01

The field-installed BACnet Communication Card allows the RTU-C unit controller to communicate with a third party building management system that supports the BACnet Application Specific Controller device profile. The BACnet Communication Module plugs onto the unit RTU-C controller and allows communication between the RTU-C and the BACnet MSTP network.



LonWorks COMMUNICATION CARD RXRX-AY02

The field-installed LonWorks Communication Card allows the RTU-C unit controller to communicate with a third party building management system that supports the LonMark Space Comfort Controller (SCC) functional profile or LonMark Discharge Air Controller (DAC) functional profile. The LonMark Communication Module plugs onto the RTU-C controller and allows communication between the RTU-C and a LonWorks Network.

Guide Specifications RGEG—180-300

You may copy this document directly into your building specification. This specification is written to comply with the 2016 version of the “master format” as published by the Construction Specification Institute. www.csinet.org.

GAS HEAT PACKAGED ROOFTOP

HVAC Guide Specifications
Size Range: 15 to 25 Nominal Tons

1.00 General:

A. Outdoor, rooftop mounted, electrically controlled, heating and cooling unit utilizing a(n) hermetic scroll compressor(s) for cooling duty and heat pump for heating duty.
B. Factory assembled, single-piece heating and cooling rooftop unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, and special features required prior to field start-up.
C. Unit shall use environmentally safe, R-454B refrigerant.
D. Unit shall be installed in accordance with the manufacturer’s instructions.
E. Unit must be selected and installed in compliance with local, state, and federal codes.
F. Model and serial data shall be printed inside the control box.

1.01 Quality Assurance:

A. Unit meets ASHRAE 90.1 2022 minimum efficiency requirements.
B. Unit shall be rated in accordance with AHRI Standards 340/360.
C. Unit shall be designed to conform to ASHRAE 15.
D. Unit shall be UL-tested and certified in accordance with ANSI Z21.47 Standards and UL-listed and certified under Canadian standards as a total package for safety requirements.
E. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
F. Unit casing shall be capable of withstanding 1000-hour salt spray exposure per ASTM B117 (scribed specimen).
G. Roof curb shall be designed to conform to NRCA Standards.
H. Unit shall be subjected to a completely automated run test on the assembly line. The data for each unit will be stored at the factory, and must be available upon request.
I. Unit shall be designed in accordance with UL Standard 60335-2-40 4th Edition. including tested to withstand rain.
J. Unit shall be constructed to prevent intrusion of snow and tested to prevent snow intrusion into the control box up to 40 mph.

1.02 Manufacturer Qualifications

A. Unit shall be designed in accordance with ISO 9001:2015, and shall be manufactured in a facility registered by ISO 9001:2015.

1.03 Installer Qualifications

A. The installer shall be trained to install and service equipment with A2L refrigerants.

1.04 Delivery, Storage, and Handling:

A. Unit shall be stored and handled per manufacturer’s recommendations.
B. Unit lifted by crane requires either shipping top panel or spreader bars.
C. Unit shall only be stored or positioned in the upright position.
D. Plastic bumpers for handling and protection of unit during transportation and storage.

1.05 Unit Cabinet:

A. Unit cabinet shall be constructed of galvanized steel.
B. Unit cabinet exterior paint shall be pre-painted steel.
C. The sheet-metal cabinet shall be constructed of 18-gauge material for structural components with an underlying coat of G90.
D. Evaporator fan compartment interior cabinet insulation shall conform to AHRI Standards 340/360 minimum exterior sweat criteria. Interior surfaces shall be insulated with a minimum 1/2-in. thick, 1.6 lb density, flexible fiberglass insulation, foil faced on the air side. Aluminum foil-faced fiberglass insulation shall be used in the gas heat compartment.
E. Shall utilize uniform screw sizing.
F. Base of unit shall have a location for thru-the-base gas and electrical connections standard.

G. Base Rail:
   i. Unit shall have base rails on a minimum of 4 sides.
   ii. Holes shall be provided in the base rails for rigging shackles to facilitate maneuvering and overhead rigging.
   iii. Holes shall be provided in the base rail for moving the rooftop for fork truck.
   iv. Base rail shall be a minimum of 14 gauge thickness.

H. Condensate Pan and Connections:
   i. Shall be a sloped condensate drain pan made of a non-corrosive material and be removable for cleaning.
   ii. Shall comply with ASHRAE Standard 62.
   iii. Shall use a 1" NPT drain connection, possible either through the bottom or side of the drain pan. Connection shall be made per manufacturer's recommendations.
   iv. Shall be able to slide out completely.
   v. Shall be separate from the coil.

I. Standard factory-installed condensate overflow sensor.

J. Top panel
   i. Shall be a single piece top panel over indoor section.

K. Gas Connections
   i. All gas piping connecting to unit gas valve shall enter the unit cabinet at a single location on side of unit (horizontal plane).
   ii. Thru-the-base Capability:
      a Standard unit shall have a thru-the-base gas-line locations using a continuous raised, flange around opening in the basepan.
      b. No basepan penetration, other than those authorized by the manufacturer, is permitted.

L. Electrical Connections:
   i. All unit power wiring shall enter unit cabinet through a single, factory-prepared, knockout location.
   ii. Thru-the-base Capability:
      a. Standard unit shall have a thru-the-base electrical location(s) using a raised, continuous raised flange opening in the basepan.
      b. No basepan penetration, other than those authorized by the manufacturer, is permitted.

M. Component Access Panels (standard):
   i. Cabinet panels shall be easily opened for servicing.
   ii. Stainless steel metal hinges are optional on all doors.
   iii. Panels covering control box, indoor fan, indoor fan motor, gas components (where applicable), and filters shall have hinges with 1/4 turn fasteners on units with factory-installed hinged option.

1.06 Operating Characteristics:

A. Unit shall be capable of starting and running at 125°F (52°C) ambient outdoor temperature, meeting maximum load criteria of AHRI Standard 340/360 at ± 10% voltage.

B. Compressor with standard controls shall be capable of operation down to 50°F (10°C), ambient outdoor temperatures. Low ambient accessory kit is necessary if mechanically cooling at ambient temperatures to 0°F (-17.7°C).

C. Unit shall discharge supply air vertically or horizontally as shown on contract drawings.

D. Unit shall be shipped with both horizontal and vertical openings covered with insulated panels.

E. Unit shall be field convertible.

F. Unit shall have two vertical return openings to accommodate multiple curb configuration options [only one shall be utilized].

G. Unit shall be capable of mixed operation: vertical supply with horizontal return or horizontal supply with vertical return.

1.07 Electrical Requirements

A. Main power supply voltage, phase, and frequency must match those required by the manufacturer.

1.08 Evaporator Fan Compartment:

A. Interior cabinet surfaces shall be insulated with a minimum 1/2-in. thick, minimum 1.6 LB density, flexible fiberglass insulation bonded with foil face on the air side.

B. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.

C. Insulation shall also be mechanically fastened with welded pin and retainer washer.

1.09 Thermostats

A. Thermostat must:
   i. Energize “G” when calling for heat. If “G” signal is provided along with “W1” or “W2,” then the warm-up delay is bypassed.
   ii. Have capability to energize 2 different stages of cooling, and 2 different stages of heating.
   iii. Include capability for occupancy scheduling.

1.10 Electronic Control System for HVAC:

A. Shall be complete with self-contained low-voltage control circuit protected by a fuse on the 24-V transformer side. Transformer shall have 100VA capabilities.
B. Shall utilize color-coded wiring.
C. The heat exchanger shall be controlled by the Core Command microprocessor. See heat exchanger section of this specification.
D. Shall include a central control terminal board to conveniently and safely provide connection points for vital control functions such as: smoke detectors, phase monitor, economizer, thermostat, DDC control options, loss of charge, freeze sensor, high pressure switches.
E. Unit shall include a minimum of one 8-pin screw terminal connection board for connection of control wiring.
F. Unit control board shall be provided with 7 segment readout via LCD display for status and diagnostics.
G. Unit control board shall be capable of upstaging heating with use of a single-stage thermostat.

1.10.01 Safeties:

A. Compressor over-temperature, over current.
B. Standard Low-pressure Switch:
   i. Units shall have low pressure, loss of charge automatic reset device that will shut off compressor when tripped.
   ii. Low pressure control
      a. Provides active protection in both heating and cooling modes at all outdoor ambient temperatures. The low pressure control is an automatic reset type and opens at approximately 50 PSIG ± 7 and closes at approximately 95 PSIG ±. Operation is slightly different between cooling and heating modes.
C. Standard High-pressure Switch:
   i. Unit shall be equipped with high pressure switch device that will shut off compressor when tripped.
   ii. High pressure control
      a. The high pressure control is an automatic reset type and opens at approximately 650 PSIG ± 10 and closes at approximately 450 PSIG ± 15. The compressor and fan motor will stop when the high pressure control opens and will start again if the high side pressure drops to approximately 420 psig where the automatic reset high pressure control resets. If the high pressure control opens 3 times within a particular call for heating or cooling operation, the defrost control will lock out compressor and outdoor fan operation.
D. Freeze protection sensor comes standard on DDC models and is available as an option for Non-DDC models.
E. Automatic reset, motor thermal overload protector.
F. The unit must be permanently grounded.
G. Components are not compatible between different refrigerants. Do not use R-410A service equipment or components on R-454B equipment. System or part failure could occur.
H. Heating section shall be provided with the following minimum protections:
   i. High-temperature limit switches.
   ii. Induced draft motor pressure switch.
   iii. Flame rollout switch.
   iv. Flame proving controls.

1.11 Standard Filter Section:

A. Shall consist of factory-installed, low velocity, throwaway 2-in. thick fiberglass filters of commercially available sizes.
B. Unit will accept only 2-inch filters.
C. Filter face velocity shall not exceed 365 fpm at nominal airflows.
D. Filters access is specified in the unit cabinet section of this specification.
E. Filters shall be held in place by a sliding filter tray, facilitating easy removal and installation.
F. Filters shall be standard, commercially available sizes.

1.12 Coils

A. Standard Aluminum/MicroChannel Coils:
   i. Standard evaporator and condenser coils shall be aluminum.
   ii. MicroChannel intertwined coils for both evaporator and condenser coils.
   iii. Evaporator and condenser coils shall be leak tested to 150 psig, pressure tested to 400 psig, and qualified to burst test at 1,800 psi.

1.13 Refrigerant Components:

A. Refrigerant circuit shall include the following control, safety, and maintenance features:
   i. TXV metering system shall prevent mal-distribution of two-phase refrigerant.
   ii. Thermal Expansion Valve (TXV).
   iii. Refrigerant filter drier.
   iv. Service gauge connections on suction and discharge lines.
   v. External pressure gauge ports access shall be located in front exterior of cabinet.
   vi. Access panels can be removed without disrupting condenser air flow.

B. Compressors:
   i. Unit shall use two fully hermetic scroll compressors.
   ii. Compressor motors shall be cooled by refrigerant gas passing through motor windings.
   iii. Shall be internally protected from high discharge temperature conditions.
   iv. Shall be protected from an over-temperature and over-amperage conditions by an internal, motor overload device.
   v. Shall be factory mounted on rubber grommets.
   vi. Compressor motors shall have internal line break thermal and current overload.
   vii. Crankcase heaters shall not be required for normal operating range.
   viii. Compressor lockout sensor on the unit controller is factory set at 35°F and is adjustable from 30°F (-1°C) to 50°F (10°C) and resets the cooling lockout at 5°F (+2.7°C) above the set point.

1.14 Evaporator Fan and Motor:

A. Evaporator Fan Motor:
   i. Shall have permanently lubricated bearings.
   ii. Shall have inherent automatic-reset thermal overload protection.
   iii. Shall have a maximum continuous bhp rating for continuous duty operation; no safety factors above that rating shall be required.

B. Direct Drive Evaporator Fan:
   i. Belt drive shall include an adjustable-pitch motor pulley.
   ii. Shall use sealed, permanently lubricated ball-bearing type.
   iii. Blower fan shall be double-inlet type with forward-curved blades.
   iv. Shall be constructed from steel with a corrosion resistant finish and dynamically balanced.

C. Blower Assembly:
   i. Entire assembly shall be able to slide out completely.
   ii. Shall be able to slide-out without the removal of the roof and condenser fan motors.

1.15 Condenser Fans and Motors:

A. Evaporator fan motor:
   i. Shall have permanently lubricated bearings.
   ii. Shall have inherent automatic-reset thermal overload protection or circuit breaker.
   iii. Shall have a maximum continuous bhp rating for continuous duty operation; no safety factors above that rating shall be required.

B. Belt-Driven Evaporator Fan:
   i. Belt drive shall include an adjustable-pitch motor pulley.
   ii. Shall use sealed, permanently lubricated ball-bearing type.
   iii. Blower fan shall be double-inlet type with forward-curved blades.
   iv. Shall be constructed from steel with a corrosion resistant finish and dynamically balanced.

C. Blower Assembly:
   i. Entire assembly shall be able to slide out completely including VFD, two blowers, and motor.
   ii. Shall be able to slide-out without the removal of the roof and condenser fan motors.

1.16 RTU-C Controller:

A. Shall accept 18-30VAC input power.
B. Shall have an operating temperature range from -22ºF (-30ºC) to 158ºF (70ºC), 10%– 95% RH (non-condensing).
C. Controller shall accept the following inputs: space temperature, setpoint adjustment, outdoor air temperature, indoor air quality, outdoor air enthalpy, fire shutdown, return air enthalpy, fan status, remote time clock/door switch.
D. Shall accept a CO^2 sensor in the conditioned space and be Demand Control Ventilation (DCV) ready.
E. Shall provide the following outputs: Economizer, fan, cooling stage 1, cooling stage 2, heat stage 1, heat stage 2, exhaust, occupied.
F. Unit shall provide surge protection for the controller through a circuit breaker.
G. Shall have a field-installed communication card allowing the unit to be able to communicate at a Baud rate of 19.2K or faster.
H. Shall have an LCD display independently showing the status of activity on the communication bus, and processor operation.
I. Optional field-installed BACnet plug-in communication card which includes an EIA-485 protocol communication port, or an optional field-installed LonWorks plug-in communications card.
J. Shall be shock resistant in all planes to 5G peak, 11ms during operation, and 100G peak, 11ms during storage.
K. Shall be vibration resistant in all planes to 1.5G @ 20-300 Hz.
L. Shall support a bus length of 4000 ft max, 60 devices per 1000 ft section, and 1 RS-485 repeater per 1000 ft sections.
M. Unit shall be compatible with a programmable 24 volt thermostat.
N. Unit shall be compatible with a zone sensor and a mechanical or solid state time clock connected to the RTU-C.

1.17 Open Protocol, Direct Digital Controller:

A. Shall accept 18-30VAC, 50-60Hz, and consumer 17.4VA or less power.
B. Shall have an operating temperature range from -22ºF (-30ºC) to 130ºF (54ºC), 10%–90% RH (non-condensing).
C. Shall have either a field-installed BACnet plug-in communication card which includes an EIA-485 protocol communication port, or a field-installed LonWorks plug-in communications card.
D. The BACnet plug in communication card shall include built-in protocol for BACNET (MS/TP and PTP modes).
E. The LonWorks plug in communication card shall include the Echelon processor required for all Lon applications.
F. Shall allow access of up to 62 network variables (SNVT). Shall be compatible with all open controllers.
G. Baud rate Controller shall be selectable through the EIA-485 protocol communication port.
H. Shall have an LCD display independently showing the status of serial communication, running, errors, power, all digital outputs, and all analog inputs.
I. Shall accept the following inputs: space temperature, setpoint adjustment, outdoor air temperature, indoor air quality, outdoor air enthalpy, compressor lock-out, fire shutdown, enthalpy switch, and fan status/filter status/humidity/remote occupancy.
J. Shall provide the following outputs: economizer, fan, cooling stage 1, cooling stage 2, heat stage 1, heat stage 2, exhaust.
K. Shall be natively equipped with Modbus communication protocol.

1.18 Adjustable Frequency Drive:

A. Unit shall be supplied with an electronic variable frequency drive for the supply air fan.
B. Drive shall be factory-installed in an enclosed cabinet.
C. Drive shall meet UL Standard 60335-2-40 4th Edition.
D. The completed unit assembly shall be UL listed.
E. Drives are to be accessible through an access panel (optional hinged doors).
F. The unit manufacturer shall install all power and control wiring.
G. The supply air fan drive output shall be controlled by the factory-installed main unit control system and drive status and operating speed shall be monitored and displayed at the main unit control panel.
H. Drive shall be programmed and factory run tested in the unit.
I. VFD shall be modular and designed for easy disconnect via wiring harness.

1.19 Gas Heat Compartment:

A. Aluminum foil-faced fiberglass insulation shall be used.
B. Insulation and adhesives shall meet NFPA 90A requirements for flame spread and smoke generation.
C. Insulation shall also be mechanically fastened with welded pin and retainer washer.

1.20 Gas Heat:

A. Shall have standard two stage gas heat.
B. Heat exchanger shall be an induced draft design. Positive pressure heat exchanger designs shall not be allowed.
C. Shall incorporate a direct-spark ignition system and redundant main gas valve.
D. Heat exchanger design shall allow combustion process condensate to gravity drain; maintenance to drain the gas heat exchanger shall not be required.
E. Gas supply pressure at the inlet to the rooftop unit gas valve must match that required by the manufacturer.
F. The heat exchanger shall be controlled by the Core Command microprocessor.
    i. The Core Command board shall notify users of fault using two 7 segment displays.
G. Heat exchanger shall be removable via slide out rails.
H. Standard Heat Exchanger Construction:
    i. Heat exchanger shall be of the tubular-section type constructed of a minimum of 20-gauge steel coated with a nominal 1.2 mil aluminum-silicone alloy for corrosion resistance.
    ii. Use energy saving, direct-spark ignition system.
    iii. Use a redundant main gas valve.
    iv. Burners shall be of the in-shot type constructed of aluminum-coated steel.
    v. Burners shall incorporate orifice for rated heat output up to 2,000 ft. (610m) elevation with a gas heating valve of 1050. Alternate orifices may be required depending on local gas heating valves and elevations.
    vi. Each heat exchanger tube shall contain restrictions similar to dimples for increased heating effectiveness.
I. Optional Stainless Steel Heat Exchanger Construction:
    i. Use energy saving, direct-spark ignition system.
    ii. Use a redundant main gas valve.
    iii. Burners shall be of the in-shot type constructed of aluminum-coated steel.
    iv. All gas piping shall enter the unit cabinet at a single location on side of unit (horizontal plane).
    v. The optional stainless steel heat exchanger shall be of the tubular-section type, constructed of a minimum of 20-gauge type 409 stainless steel.
    vi. Type 409 stainless steel shall be used in heat exchanger tubes.
    vii. Complete stainless steel heat exchanger allows for greater application flexibility.
J. Induced Draft Combustion Motor and Blower:
    i. Shall be a direct-drive, single inlet, forward-curved centrifugal type.
    ii. Shall be made from steel with a corrosion-resistant finish.
    iii. Shall be permanently lubricated sealed bearings.
    iv. Shall have inherent thermal overload protection.
    v. Shall have an automatic reset feature.

1.21 Special Features:

A. Integrated Economizers:
    i. Integrated, gear-driven parallel modulating blade design type capable of simultaneous economizer and compressor operation.
    ii. Independent modules for vertical or horizontal return configurations shall be available. Vertical return modules shall be available as a factory-installed option.
    iii. Damper blades shall be galvanized steel with metal gears. Plastic or composite blades on intake or return shall not be acceptable.
    iv. Shall include all hardware and controls to provide free cooling with outdoor air when temperature and/or humidity are below setpoints.
    v. Shall be equipped with gear driven dampers for both the outdoor ventilation air and the return air for positive air stream control.
    vi. Shall be equipped with low-leakage dampers, not to exceed 2% leakage at 1 in. wg pressure differential.
    vii. Shall be capable of introducing up to 100% outdoor air.
    viii. Shall be equipped with a barometric relief damper capable of relieving up to 100% return air.
    ix. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
    x. Enthalpy sensor shall be provided as standard. Outdoor air sensor set point shall be adjustable and shall range from 40 to 100°F / 4 to 38°C. Additional sensor options shall be available as accessories.
    xi. The economizer controller shall also provide control of an accessory power exhaust unit function. Factory set at 70%, with a range of 0% to 100%.

xii. The economizer shall maintain minimum airflow into the building during occupied period and provide design ventilation rate for full occupancy. A remote potentiometer may be used to override the damper set point.
xiii. Dampers shall be completely closed when the unit is in the unoccupied mode.
xiv. Economizer controller shall accept a 2-10Vdc CO2 sensor input for IAQ/DCV control. In this mode, dampers shall modulate the outdoor-air damper to provide ventilation based on the sensor input.
xv. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
xvi. Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.
xvii. Economizer wire harness will have provision for smoke detector available in supply and return options.
xviii. Shall provide fault detection and diagnostics (FDD) system in accordance with local code. Faults shall be communicated out on an alarm signal.

B. Manual Damper
   i. Manual damper package shall consist of damper, air inlet screen, and rain hood which can be preset to admit up to 50% outdoor air for year-round ventilation.

C. Two-Position Motorized Damper:
   i. Damper shall be a Two-Position Motorized Damper. Damper travel shall be from the full closed position to the field adjustable %-open setpoint.
   ii. Damper shall include adjustable damper travel from 25% to 100% (full open).
   iii. Damper shall include single or dual blade, gear driven dampers and actuator motor.
   iv. Actuator shall be direct coupled to damper gear. No linkage arms or control rods shall be acceptable.
   v. Damper will admit up to 100% outdoor air for applicable rooftop units.
   vi. Damper shall close upon indoor (evaporator) fan shutoff and/or loss of power.
   vii. The damper actuator shall plug into the rooftop unit's wiring harness plug. No hard wiring shall be required.
   viii. Outside air hood shall include aluminum water entrainment filter.

D. Liquid Propane (LP) Conversion Kit (sold separately)
   i. Kit shall contain all the necessary hardware and instructions to convert a standard natural gas unit for use with liquefied propane, up to 2000 ft (610m) elevation.

E. Condenser Coil Hail Guard Assembly:
   i. Shall protect against damage from hail.
   ii. Shall be louvered style.

F. Unit-Mounted, Non-Fused Disconnect Switch:
   i. Shall be factory or field-installed.
   ii. Shall be internally mounted with external access.
   iii. National Electric Code (NEC) and UL approved non-fused switch shall provide unit power shutoff.
   iv. Shall be accessible from outside the unit.
   v. Shall provide local shutdown and lockout capability.

G. Convenience Outlet:
   i. Optional Non-Powered convenience outlet.
   ii. Outlet shall be powered from a separate 115-120v power source.
   iii. A transformer shall not be included.
   iv. Outlet shall be field-installed and internally mounted with easily accessible 115-v female receptacle.
   v. Outlet shall include 15 amp GFI receptacle with independent fuse protection.
   vi. Outlet shall be accessible from outside the unit.

H. Flue Diverter:
   i. Flue discharge shall direct unit exhaust horizontally and have the capability of being directed vertically.
   ii. Deflector shall be defined as a "natural draft" device by the National Fuel and Gas (NFG) code.

I. Propeller Power Exhaust:
   i. Power exhaust shall be used in conjunction with an integrated economizer.
   ii. Configurable for vertical and horizontal installation.
   iii. Horizontal power exhaust shall be mounted in return ductwork.
   iv. Power exhaust shall be controlled by economizer controller operation. Exhaust fans shall be energized when dampers open past the 0-100% adjustable setpoint on the economizer control.
   v. Capable of constant volume.

J. Roof Curbs (Vertical):
   i. Formed galvanized steel with wood nailer strip and shall be capable of supporting entire unit weight.
   ii. Permits installation and securing of ductwork to curb prior to mounting unit on the curb.
   iii. Shall be available in heights of 14, 18, and 24 inches.

K. Outdoor Air Enthalpy Sensor
   i. The outdoor air enthalpy sensor shall be used to provide single enthalpy control. When used in conjunction with a return air enthalpy sensor, the unit will provide differential enthalpy control. The sensor allows the unit to determine if outside air is suitable for free cooling.

L. Universal Gas Conversion Kit
   i. Package shall contain all the necessary hardware and instructions to convert a standard natural gas unit to operate from 2000-7000 ft (610 to 2134m) elevation with natural gas or from 0-7000 ft (90-2134m) elevation with liquefied propane.

M. Return Air Enthalpy Sensor
   i. The return air enthalpy sensor shall be used in conjunction with an outdoor air enthalpy sensor to provide differential enthalpy control.

N. Indoor Air Quality (CO2) Sensor:
   i. Shall be able to provide demand ventilation indoor air quality (IAQ) control.
   ii. The IAQ sensor shall be available in duct mount, wall mount, or wall mount with LED display. The set point shall have adjustment capability.

O. Smoke Detectors:
   i. Shall be a Four-Wire Controller and Detector.
   ii. Shall be environmentally compensated with differential sensing for reliable, stable, and drift-free sensitivity.
   iii. Shall use magnet-activated test/reset sensor switches.
   iv. Shall have tool-less connection terminal access.
   v. Shall have a recessed momentary switch for testing and resetting the detector.
   vi. Controller shall include:
      a. One set of normally open alarm initiation contacts for connection to an initiating device circuit on a fire alarm control panel.
      b. Two Form-C auxiliary alarm relays for interface with rooftop unit or other equipment.
      c. One Form-C supervision (trouble) relay to control the operation of the Trouble LED on a remote test/reset station.
      d. Capable of direct connection to two individual detector modules.

P. Refrigerant Detection System:
   i. In the event of a detected refrigerant leak, the refrigerant leak detection sensor(s) will trigger the mitigation procedure that shuts off the compressor(s) and turns on the indoor blower motor.
   ii. In the event of a detected refrigerant leak, the system will display a fault code on the unitary controller. For DDC systems, ‘A2L Event’ will appear on the LCD module. For Non-DDC systems, a fault code of 40 will appear on the dual seven segment display.

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GENERAL TERMS OF LIMITED WARRANTY*

Rheem® will furnish a replacement for any part of this product which fails in normal use and service within the applicable periods stated, in accordance with the terms of the limited warranty.

***For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.**

Compressor
Commercial Applications .....Five (5) Years
Stainless Steel Heat Exchanger
Commercial Applications .....Twenty (20) Years
Factory Standard Heat Exchanger
Commercial Applications .....Ten (10) Years
Parts
Commercial Applications .....One (1) Year

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

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